

SEARCH REQUEST FORM

Scientific and Technical Information Center

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12E12

Requester's Full Name: Anne-Marie Baker Examiner #: 74977 Date: 4/18/01
 Art Unit: 1632 Phone Number 306-9155 Serial Number: 08/963,288
 Mail Box and Bldg/Room Location: 12D07 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Expression Vector
 Inventors (please provide full names): Norstedt et al

Earliest Priority Filing Date: 10/19/95

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

- Please perform an ~~eligibility~~ search for
 TTCTGAGAA

Limit to 12 mer or smaller.

POINT OF CONTACT:
 BARB O'BRYEN
 TECH. INFORMATION SPECIALIST
 STIC CM1 12C14 308-4291

- Claim is directed to an enhancer element
 consisting essentially of the nucleotide
 sequence.

- There is no CRF for this and thus no SEQ ID NO.
 for this 9-nucleotide sequence because the
 sequence rules apply to sequences 10-nucleotides or
 longer. Thus, this case is not required to comply
 with the sequence rules. Or, looked at another way,
 the case is in compliance because no CRF is required.

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>ASB</u>	NA Sequence (#) <u>1</u>	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: <u>4-18-01</u>	Bibliographic _____	Dr.Link _____
Date Completed: <u>4-23-01</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>20</u>	Fulltext _____	Sequence Systems <u>IG, 14, 103</u>
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>15</u>	Other _____	Other (specify) _____

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OY 1 ttctgaga 9
Db 9 TTCTGAGA 1

RESULT 2

US-08-369-796-34/c
; Sequence 34, Application US/08369796
; Patent No. 5716622
; GENERAL INFORMATION:
; APPLICANT: James E. Darnell, Jr.
; APPLICANT: Zilong Wen
; APPLICANT: Curt M. Horvath
; APPLICANT: Zhong Zhong
; TITLE OF INVENTION: FUNCTIONALLY ACTIVE REGIONS OF SIGNAL
; TITLE OF INVENTION: TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION (STAT) PROTEINS
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Klauder & Jackson
; STREET: 411 Hackensack Avenue
; CITY: Hackensack
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/369,796
; FILING DATE: 06-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jackson Esq., David A.
; REGISTRATION NUMBER: 26,742
; REFERENCE/DOCKET NUMBER: 600-1-116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201 487-5800
; TELEFAX: 201 343-1684
; TELEX: 133521
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA synthetic probe
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
US-08-369-796-34

Query Match 100.0%; Score 9; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ttctgaga 9
Db 9 TTCTGAGA 1

RESULT 3

US-08-410-779B-35/c
; Sequence 35, Application US/08410779B
; Patent No. 5814517
; GENERAL INFORMATION:
; APPLICANT: SEIDEL, H. MARTI
; APPLICANT: LAMB, I. PETER
; TITLE OF INVENTION: DNA SPACER REGULATORY ELEMENTS
; TITLE OF INVENTION: RESPONSIVE TO CYTOKINES AND METHODS FOR THEIR USE
; NUMBER OF SEQUENCES: 166
; CORRESPONDENCE ADDRESS:

ADDRESSEE: LIGAND PHARMACEUTICALS INCORPORATED
; STREET: 9393 TOWNE CENTRE DRIVE
; CITY: SAN DIEGO
; STATE: CALIFORNIA
; COUNTRY: US
; ZIP: 92121

COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/410,779B
; FILING DATE: 27-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/228,935
; FILING DATE: 14-APR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: JURGENSEN, THOMAS E
; REGISTRATION NUMBER: 34,195
; REFERENCE/DOCKET NUMBER: 016-0013A, US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 550-7675
; TELEFAX: (619) 550-7675
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "OTHER NUCLEIC ACID,
; DESCRIPTION: SYNTHETIC DNA"
US-08-410-779B-35

Query Match 100.0%; Score 9; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ttctgaga 9
Db 9 TTCTGAGA 1

RESULT 4

US-08-852-091-34/c
; Sequence 34, Application US/08852091
; Patent No. 5883228
; GENERAL INFORMATION:
; APPLICANT: James E. Darnell, Jr.
; APPLICANT: Zilong Wen
; APPLICANT: Curt M. Horvath
; APPLICANT: Zhong Zhong
; TITLE OF INVENTION: FUNCTIONALLY ACTIVE REGIONS OF SIGNAL
; TITLE OF INVENTION: TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION (STAT) PROTEINS
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Klauder & Jackson
; STREET: 411 Hackensack Avenue
; CITY: Hackensack
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/852,091
; FILING DATE: 06-MAY-1997

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GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: April 21, 2001, 12:13:27 ; Search time 80.36 Seconds
(without alignments)
19.555 Million cell updates/sec

Title: SHORT

Perfect score: 9
Sequence: 1 ttctgagaa 9

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 302621 seqs, 87301344 residues

Total number of hits satisfying chosen parameters: 23618

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents_NA:*
1: /cgn2_6/ptodata/2/ina/5a_COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5b_COMB.seq:*
3: /cgn2_6/ptodata/2/ina/5a_COMB.seq:*
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5: /cgn2_6/ptodata/2/ina/PTUS_COMB.seq:*
6: /cgn2_6/ptodata/2/ina/Backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	9	100.0	9	1 US-08-411-020-13	Sequence 13, Appl
C 2	9	100.0	9	1 US-08-369-796-34	Sequence 34, Appl
C 3	9	100.0	9	1 US-08-410-7798-35	Sequence 35, Appl
C 4	9	100.0	9	2 US-08-852-091-34	Sequence 34, Appl
C 5	9	100.0	9	5 PCT-US95-04477-35	Sequence 35, Appl
C 6	9	100.0	9	5 PCT-US95-17025-34	Sequence 34, Appl
C 7	8	88.9	10	1 US-08-440-7878-85	Sequence 85, Appl
C 8	8	88.9	10	1 US-08-440-7878-86	Sequence 86, Appl
C 9	7.4	82.2	9	1 US-08-268-799-3	Sequence 3, Appl
C 10	7.4	82.2	9	1 US-08-411-020-12	Sequence 12, Appl
C 11	7.4	82.2	9	1 US-08-411-020-12	Sequence 12, Appl
C 12	7.4	82.2	9	1 US-08-411-020-13	Sequence 13, Appl
C 13	7.4	82.2	9	1 US-08-369-796-31	Sequence 31, Appl
C 14	7.4	82.2	9	1 US-08-369-796-34	Sequence 34, Appl
C 15	7.4	82.2	9	1 US-08-369-796-36	Sequence 36, Appl
C 16	7.4	82.2	9	1 US-08-369-796-38	Sequence 38, Appl
C 17	7.4	82.2	9	1 US-08-410-7798-31	Sequence 31, Appl
C 18	7.4	82.2	9	1 US-08-410-7798-35	Sequence 35, Appl
C 19	7.4	82.2	9	1 US-08-410-7798-51	Sequence 51, Appl
C 20	7.4	82.2	9	1 US-08-410-7798-51	Sequence 51, Appl
C 21	7.4	82.2	9	2 US-08-852-091-31	Sequence 31, Appl
C 22	7.4	82.2	9	2 US-08-852-091-34	Sequence 34, Appl
C 23	7.4	82.2	9	2 US-08-852-091-36	Sequence 36, Appl
C 24	7.4	82.2	9	2 US-08-852-091-38	Sequence 38, Appl
C 25	7.4	82.2	9	3 PCT-US95-04477-31	Sequence 31, Appl
C 26	7.4	82.2	9	5 PCT-US95-04477-35	Sequence 35, Appl
C 27	7.4	82.2	9	5 PCT-US95-04477-35	Sequence 35, Appl

C 28	7.4	82.2	9	5 PCT-US95-04477-51	Sequence 51, Appl
C 29	7.4	82.2	9	5 PCT-US95-04477-51	Sequence 51, Appl
C 30	7.4	82.2	9	5 PCT-US95-17025-31	Sequence 31, Appl
C 31	7.4	82.2	9	5 PCT-US95-17025-34	Sequence 34, Appl
C 32	7.4	82.2	9	5 PCT-US95-17025-36	Sequence 36, Appl
C 33	7.4	82.2	9	5 PCT-US95-17025-38	Sequence 38, Appl
C 34	7.4	82.2	10	1 US-08-410-7798-53	Sequence 53, Appl
C 35	7.4	82.2	10	1 US-08-410-7798-53	Sequence 53, Appl
C 36	7.4	82.2	10	5 PCT-US95-04477-53	Sequence 53, Appl
C 37	7.4	82.2	10	5 PCT-US95-04477-53	Sequence 53, Appl
C 38	7.4	82.2	11	1 US-08-394-191-9	Sequence 9, Appl
C 39	7.4	82.2	11	1 US-08-458-364-9	Sequence 9, Appl
C 40	7.4	82.2	11	3 US-09-177-431-17	Sequence 17, Appl
C 41	7.4	82.2	8	2 US-08-525-506-8	Sequence 8, Appl
C 42	7.4	82.2	8	3 US-08-859-954-516	Sequence 516, App
C 43	7.4	82.2	8	4 US-09-085-028-8	Sequence 8, Appl
C 44	7.4	82.2	10	1 US-08-222-177A-410	Sequence 410, App
C 45	7.4	82.2	11	2 US-08-232-016-4	Sequence 4, Appl

ALIGNMENTS

RESULT 1
US-08-411-020-13/C
Sequence 13, Application US/08411020
Patent No. 5712094
GENERAL INFORMATION:
APPLICANT: SEIDEL, H. MARTI
APPLICANT: LAMB, I. PETER
APPLICANT: CHAN, SHIN-SHAY TIAN
TITLE OF INVENTION: METHODS AND ASSOCIATED REAGENTS FOR
TITLE OF INVENTION: DETECTING MODULATORS OF CYTOKINE ACTION
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Ligand Pharmaceuticals Incorporated
STREET: 933 Towne Centre Drive
City: San Diego
STATE: California
COUNTRY: US
ZIP: 92121
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/411,020
FILING DATE: 27-MAR-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jurgensen, Thomas E.
REGISTRATION NUMBER: 34,195
REFERENCE/DOCKET NUMBER: 016-0030, US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 550-7675
TELEFAX: (619) 535-3906
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "OTHER NUCLEIC ACID,
SYNTHETIC DNA"
US-08-411-020-13

Query Match 100.0%; Score 9; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ttctgaga 9
| | | | |
Db 9 TTCTGAGAA 1

RESULT 2

US-08-369-796-34/C
Sequence 34, Application US/08369796
Patent No. 5716622
GENERAL INFORMATION:
APPLICANT: James E. Darnell, Jr.
APPLICANT: Zilong Wen
APPLICANT: Curt M. Horvath
APPLICANT: Zhong Zhong
TITLE OF INVENTION: FUNCTIONALLY ACTIVE REGIONS OF SIGNAL
TITLE OF INVENTION: TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION (STAT) PROTEINS
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: Klauber & Jackson
STREET: 411 Hackensack Avenue
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/369,796
FILING DATE: 06-JAN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 600-1-116
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201 487-5800
TELEFAX: 201 343-1684
TELEX: 133521
INFORMATION FOR SEQ. ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA synthetic probe
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-369-796-34

Query Match 100.0%; Score 9; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ttctgaga 9
| | | | |
Db 9 TTCTGAGAA 1

RESULT 3

US-08-410-779B-35/C
Sequence 35, Application US/08410779B
Patent No. 5814517
GENERAL INFORMATION:
APPLICANT: SEIDEL, H. MARTI
APPLICANT: LAMB, I. PETER
TITLE OF INVENTION: DNA SPACER REGULATORY ELEMENTS
TITLE OF INVENTION: RESPONSIVE TO CYTOKINES AND METHODS FOR THEIR USE
NUMBER OF SEQUENCES: 166
CORRESPONDENCE ADDRESS:

ADDRESSEE: LIGAND PHARMACEUTICALS INCORPORATED
STREET: 9393 TOWNE CENTRE DRIVE
CITY: SAN DIEGO
STATE: CALIFORNIA
COUNTRY: US
ZIP: 92121

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/410,779B
FILING DATE: 27-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/228,935
FILING DATE: 14-APR-1994
ATTORNEY/AGENT INFORMATION:
NAME: JURGENSEN, THOMAS E
REGISTRATION NUMBER: 34,195
REFERENCE/DOCKET NUMBER: 016-0013A.US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 550-7675
TELEFAX: (619) 535-3906
INFORMATION FOR SEQ. ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "OTHER NUCLEIC ACID,
SYNTHETIC DNA"
US-08-410-779B-35

Query Match 100.0%; Score 9; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ttctgaga 9
| | | | |
Db 9 TTCTGAGAA 1

RESULT 4

US-08-852-091-34/C
Sequence 34, Application US/08852091
Patent No. 5883228
GENERAL INFORMATION:
APPLICANT: James E. Darnell, Jr.
APPLICANT: Zilong Wen
APPLICANT: Curt M. Horvath
APPLICANT: Zhong Zhong
TITLE OF INVENTION: FUNCTIONALLY ACTIVE REGIONS OF SIGNAL
TITLE OF INVENTION: TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION (STAT) PROTEINS
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: Klauber & Jackson
STREET: 411 Hackensack Avenue
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/852,091
FILING DATE: 06-MAY-1997

CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/369,796
FILING DATE: 06-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 600-1-116
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201 487-5800
TELEFAX: 201 343-1684
TELEX: 133521
INFORMATION FOR SEQ ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA synthetic probe
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-852-091-34

Query Match 100.0%; Score 9; DB 2; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ttctgaga 9
|||||
Db 9 TTCTGAGAA 1

RESULT 5
PCT-US95-04477-35/c
Sequence 35, Application PC/TUS9504477
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: DNA SPACER REGULATORY ELEMENTS RESPONSIVE TO
CYTOKINES AND METHODS FOR THEIR USE
NUMBER OF SEQUENCES: 165
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/04477
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/228,935
FILING DATE: 14-APR-1994
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "OTHER NUCLEIC ACID,
DESCRIPTION: SYNTHETIC DNA"
PCT-US95-04477-35

Query Match 100.0%; Score 9; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ttctgaga 9
|||||
Db 9 TTCTGAGAA 1

RESULT 6
PCT-US95-17025-34/c
Sequence 34, Application PC/TUS9517025
GENERAL INFORMATION:
APPLICANT: James E. Darnell, Jr.
APPLICANT: Zilong Wen
APPLICANT: Curt M. Horvath
APPLICANT: Zhong Zhong
TITLE OF INVENTION: FUNCTIONALLY ACTIVE REGIONS OF SIGNAL
TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION (STAT) PROTEINS
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: Klauber & Jackson
STREET: 411 Hackensack Avenue
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/17025
FILING DATE: 28-DEC-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/369,796
FILING DATE: 06-JAN-1995
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 600-1-116
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201 487-5800
TELEFAX: 201 343-1684
TELEX: 133521
INFORMATION FOR SEQ ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA synthetic probe
HYPOTHETICAL: NO
ANTI-SENSE: NO
PCT-US95-17025-34

Query Match 100.0%; Score 9; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.9e+07;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ttctgaga 9
|||||
Db 9 TTCTGAGAA 1

RESULT 7
US-08-440-787A-85/c
Sequence 85, Application US/08440787A
Patent No. 5770434
GENERAL INFORMATION:
APPLICANT: Huse, William D.
TITLE OF INVENTION: Soluble Peptides Having Constrained,
Secondary Conformation in Solution and Method of Making
TITLE OF INVENTION: Same.
NUMBER OF SEQUENCES: 174
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP

STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/440,787A
FILING DATE: 15-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/978,893
FILING DATE: 10-NOV-1992
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-IX 1586
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 85:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-440-787A-85

Query Match 88.9%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 tctcgaga 9
|||||
Db 10 TCTGAGA 3

RESULT 8
US-08-440-787A-86
Sequence 86, Application US/08440787A
Patent No. 5770434
GENERAL INFORMATION:
APPLICANT: Huse, William D.
TITLE OF INVENTION: Soluble Peptides Having Constrained,
TITLE OF INVENTION: Secondary Conformation in Solution and Method of Making
NUMBER OF SEQUENCES: 174
CORRESPONDENCE ADDRESS:
ADDRESSER: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/440,787A
FILING DATE: 15-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/978,893
FILING DATE: 10-NOV-1992
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-IX 1586
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 86:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-440-787A-86

Query Match 88.9%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 3.6e+03;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 tctcgaga 8
|||||
Db 3 TCTGAGA 10

RESULT 9
US-08-268-799-3/c
Sequence 3, Application US/08268799
Patent No. 5654195
GENERAL INFORMATION:
APPLICANT: Sodroski, Joseph
APPLICANT: Haseltine, William A.
APPLICANT: Letvin, No. 5654195man
APPLICANT: Li, John
TITLE OF INVENTION: Vectors Expressing Hybrid Viruses,
TITLE OF INVENTION: Methods of Use And No. 5654195el Assays
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSER: Dikey, Bronstejn, Roberts and Cushman
STREET: 130 Water Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/268,799
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/887,505
FILING DATE: 22-MAY-1992
ATTORNEY/AGENT INFORMATION:
NAME: Eisenstein, Ronald I.
REGISTRATION NUMBER: 30628
REFERENCE/DOCKET NUMBER: 41858
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)523-3400
TELEFAX: (617) 523-6440
TELEX: 200291 stre ur
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
US-08-268-799-3

Query Match 82.2%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.9e+07;


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Matches      8; Conservative      0; Mismatches      1; Indels      0; Gaps      0;
QY      1      ttctgagaa      9
      |||||
Db      9      TTCTGAAA      1

RESULT      10
US-08-411-020-12
; Sequence 12, Application US/084111020
; Patent No. 5712094
; GENERAL INFORMATION:
; APPLICANT: SEIDEL, H. MARTI
; APPLICANT: LAMB, I. PETER
; APPLICANT: CHAN, SHIN-SHAY TIAN
; TITLE OF INVENTION: METHODS AND ASSOCIATED REAGENTS FOR
; DETECTING MODULATORS OF CYTOKINE ACTION
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ligand Pharmaceuticals Incorporated
; STREET: 9393 Towne Centre Drive
; CITY: San Diego
; STATE: California
; COUNTRY: US
; ZIP: 92121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/411,020
; FILING DATE: 27-MAR-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jurgensen, Thomas E.
; REGISTRATION NUMBER: 34,195
; REFERENCE/DOCKET NUMBER: 016-0030, US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 550-7675
; TELEFAX: (619) 535-3906
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "OTHER NUCLEIC ACID,
; DESCRIPTION: SYNTHETIC DNA"
US-08-411-020-12

Query Match      82.2%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.9e+07;
Matches      8; Conservative      0; Mismatches      1; Indels      0; Gaps      0;
QY      1      ttctgagaa      9
      |||||
Db      1      TTCTAGAA      9

RESULT      11
US-08-411-020-12/C
; Sequence 12, Application US/084111020
; Patent No. 5712094
; GENERAL INFORMATION:
; APPLICANT: SEIDEL, H. MARTI
; APPLICANT: LAMB, I. PETER
; APPLICANT: CHAN, SHIN-SHAY TIAN
; TITLE OF INVENTION: METHODS AND ASSOCIATED REAGENTS FOR
; DETECTING MODULATORS OF CYTOKINE ACTION
; NUMBER OF SEQUENCES: 59
```

```
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ligand Pharmaceuticals Incorporated
; STREET: 9393 Towne Centre Drive
; CITY: San Diego
; STATE: California
; COUNTRY: US
; ZIP: 92121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/411,020
; FILING DATE: 27-MAR-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jurgensen, Thomas E.
; REGISTRATION NUMBER: 34,195
; REFERENCE/DOCKET NUMBER: 016-0030, US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 550-7675
; TELEFAX: (619) 535-3906
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "OTHER NUCLEIC ACID,
; DESCRIPTION: SYNTHETIC DNA"
US-08-411-020-12

Query Match      82.2%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.9e+07;
Matches      8; Conservative      0; Mismatches      1; Indels      0; Gaps      0;
QY      1      ttctgagaa      9
      |||||
Db      9      TTCTAGAA      1

RESULT      12
US-08-411-020-13
; Sequence 13, Application US/084111020
; Patent No. 5712094
; GENERAL INFORMATION:
; APPLICANT: SEIDEL, H. MARTI
; APPLICANT: LAMB, I. PETER
; APPLICANT: CHAN, SHIN-SHAY TIAN
; TITLE OF INVENTION: METHODS AND ASSOCIATED REAGENTS FOR
; DETECTING MODULATORS OF CYTOKINE ACTION
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ligand Pharmaceuticals Incorporated
; STREET: 9393 Towne Centre Drive
; CITY: San Diego
; STATE: California
; COUNTRY: US
; ZIP: 92121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/411,020
; FILING DATE: 27-MAR-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jurgensen, Thomas E.
```

REGISTRATION NUMBER: 34,195
REFERENCE/DOCKET NUMBER: 016-0030.US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 550-7675
TELEFAX: (619) 535-3906
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "OTHER NUCLEIC ACID,
SYNTHETIC DNA"
US-08-411-020-13

Query Match 82.2%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.9e+07;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ttctgaga 9
|||||
Db 1 TTCTCAGAA 9

RESULT 13

US-08-369-796-31/C
Sequence 31, Application US/08369796
Patent No. 5716622
GENERAL INFORMATION:
APPLICANT: James E. Darnell, Jr.
APPLICANT: Zilong Wen
APPLICANT: Curt M. Horvath
APPLICANT: Zhong Zhong
TITLE OF INVENTION: FUNCTIONALLY ACTIVE REGIONS OF SIGNAL
TITLE OF INVENTION: TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION (STAT) PROTEINS
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: Klauber & Jackson
STREET: 411 Hackensack Avenue
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/369,796
FILING DATE: 06-JAN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 600-1-116
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201 487-5800
TELEFAX: 201 343-1684
TELEX: 133521
INFORMATION FOR SEQ ID NO: 31:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA synthetic probe
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-369-796-31

Query Match 82.2%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.9e+07;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ttctgaga 9
|||||
Db 9 TTCTGGA 1

RESULT 14

US-08-369-796-34
Sequence 34, Application US/08369796
Patent No. 5716622
GENERAL INFORMATION:
APPLICANT: James E. Darnell, Jr.
APPLICANT: Zilong Wen
APPLICANT: Curt M. Horvath
APPLICANT: Zhong Zhong
TITLE OF INVENTION: FUNCTIONALLY ACTIVE REGIONS OF SIGNAL
TITLE OF INVENTION: TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION (STAT) PROTEINS
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: Klauber & Jackson
STREET: 411 Hackensack Avenue
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/369,796
FILING DATE: 06-JAN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 600-1-116
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201 487-5800
TELEFAX: 201 343-1684
TELEX: 133521
INFORMATION FOR SEQ ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA synthetic probe
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-369-796-34

Query Match 82.2%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.9e+07;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ttctgaga 9
|||||
Db 1 TTCTCAGAA 9

RESULT 15

US-08-369-796-36/C
Sequence 36, Application US/08369796
Patent No. 5716622
GENERAL INFORMATION:
APPLICANT: James E. Darnell, Jr.

APPLICANT: Zilong Wen
 APPLICANT: Curt M. Horvath
 APPLICANT: Zhong Zhong
 TITLE OF INVENTION: FUNCTIONALLY ACTIVE REGIONS OF SIGNAL
 TITLE OF INVENTION: TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION (STAT) PROTEINS
 NUMBER OF SEQUENCES: 39
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Klauber & Jackson
 STREET: 411 Hackensack Avenue
 CITY: Hackensack
 STATE: New Jersey
 COUNTRY: USA
 ZIP: 07601
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/369,796
 FILING DATE: 06-JAN-1995
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Jackson Esq., David A.
 REGISTRATION NUMBER: 26,742
 REFERENCE/DOCKET NUMBER: 600-1-116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 201 487-5800
 TELEFAX: 201 343-1684
 TELEX: 133521
 INFORMATION FOR SEQ ID NO: 36:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA synthetic probe
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-369-796-36

Query Match 82.2%; Score 7.4; DB 1; Length 9;
 Best Local Similarity 88.9%; Pred. No. 1.9e+07;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ttctgaga 9
 ||| |||||
 Db 9 TTCGAGAA 1

Search completed: April 21, 2001, 13:12:32
 Job time: 3545 sec

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GenCore version 4.5
Copyright (c) 1993 - 2000 Compen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 21, 2001, 12:14:34 ; Search time 110.76 Seconds
(without alignments)
47.436 Million cell updates/sec

Title: SHORT
Perfect score: 9
Sequence: 1 ttctgagaa 9

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 678276 seqs, 291890651 residues

Total number of hits satisfying chosen parameters: 65774

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Minimum Match 0%
Listing first 45 summaries

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- 12: /SIDS2/gcgdata/geneseq/geneseqn/NA1991.DAT:*
- 13: /SIDS2/gcgdata/geneseq/geneseqn/NA1992.DAT:*
- 14: /SIDS2/gcgdata/geneseq/geneseqn/NA1993.DAT:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	9	100.0	9	16 T14149	Cytokine responsiv
C 2	9	100.0	9	17 T41583	Cytokine activated
C 3	9	100.0	9	19 V56876	Regulatory element
C 4	8	88.9	11	20 X77642	NIL active EGS 6.
C 5	7.4	82.2	9	14 Q53424	Stimac/HIV-1 junct
C 6	7.4	82.2	9	16 T14165	Cytokine responsiv
C 7	7.4	82.2	9	16 T14165	Cytokine responsiv
C 8	7.4	82.2	9	16 T14149	Cytokine responsiv
C 9	7.4	82.2	9	16 T14145	Cytokine responsiv
C 10	7.4	82.2	9	17 T41582	Cytokine activated
C 11	7.4	82.2	9	17 T41582	Cytokine activated

12	7.4	82.2	9	17 T41583	Cytokine activated
13	7.4	82.2	9	19 V56892	Regulatory element
C 14	7.4	82.2	9	19 V56892	Regulatory element
C 15	7.4	82.2	9	19 V56876	Regulatory element
C 16	7.4	82.2	9	19 V56872	Regulatory element
C 17	7.4	82.2	9	19 V11639	Regulatory element
C 18	7.4	82.2	9	21 C83341	Regulatory element
C 19	7.4	82.2	10	21 T4167	Regulatory element
C 20	7.4	82.2	10	16 T14167	Cytokine responsiv
C 21	7.4	82.2	10	19 V56894	Regulatory element
C 22	7.4	82.2	10	19 V56894	Regulatory element
C 23	7.4	82.2	10	21 Z81339	Regulatory element
C 24	7.4	82.2	10	21 Z84449	Regulatory element
C 25	7.4	82.2	10	21 Z85845	Regulatory element
C 26	7.4	82.2	10	21 Z86651	Regulatory element
C 27	7.4	82.2	10	22 F36105	Regulatory element
C 28	7.4	82.2	10	22 F36115	Regulatory element
C 29	7.4	82.2	10	22 F40413	Regulatory element
C 30	7.4	82.2	10	22 F43208	Regulatory element
C 31	7.4	82.2	10	22 F43604	Regulatory element
C 32	7.4	82.2	10	22 F44027	Regulatory element
C 33	7.4	82.2	11	20 Z19018	Regulatory element
C 34	7.4	82.2	11	20 Z18836	Regulatory element
C 35	7.4	82.2	11	20 Z18737	Regulatory element
C 36	7.4	82.2	11	20 X25606	Regulatory element
C 37	7.4	82.2	11	21 A39462	Regulatory element
C 38	7.4	82.2	8	21 A81203	Regulatory element
C 39	7.4	82.2	9	21 A28766	Regulatory element
C 40	7.4	82.2	10	15 Q45107	Regulatory element
C 41	7.4	82.2	10	18 T66061	Regulatory element
C 42	7.4	82.2	10	20 X15564	Regulatory element
C 43	7.4	82.2	10	20 X02705	Regulatory element
C 44	7.4	82.2	10	21 C64164	Regulatory element
C 45	7.4	82.2	10	21 A56432	Regulatory element

ALIGNMENTS

RESULT 1	T14149/C	T14149 standard; DNA; 9 BP.
ID	T14149;	
AC	T14149;	
XX		
DT	29-MAR-1996 (first entry)	
XX		
DE	Cytokine responsive DNA spacer regulatory element.	
XX		
KW	Regulatory element; transcriptional regulatory protein;	
KW	signalling molecule; DNA spacer; agonist; antagonist; anaemia;	
KW	gene transcription; inflammation; cytopenia; cancer; ss.	
XX		
OS	Synthetic.	
XX		
PN	W09528482-A2.	
XX		
PD	26-OCT-1995.	
XX		
XX	10-APR-1995;	95WO-US04477.
XX		
XX	27-MAR-1995;	95US-0410780.
PR	14-APR-1994;	94US-0228935.
XX		
PA	(LIGA-) LIGAND PHARM INC.	
XX		
PI	Lamb IP, Seidel HM;	
XX		
XX	WPI; 1995-373797/48.	
DR		
XX		
PT	DNA spacer regulatory elements responsive to cytokine(s) - for	
PT	detecting the presence of transcriptional regulatory protein in a	
PT	sample	

XX Claim 7: Page 125; 135bp; English.

PS

CC The present oligonucleotide comprises a regulatory element

CC TT(Nx)Aa, where x is 4-7, and the regulatory element binds an

CC activated transcriptional regulatory protein in response to a

CC signalling mol., i.e. a cytokine. This cytokine responsive DNA

CC spacer regulatory element can be used to detect the presence of

CC a transcriptional regulatory protein in a sample, and in assays

CC for (ant)agonists of gene transcription. The identified cpds.

CC may be used to treat cytokine-induced disease states, or to

CC ameliorate disease states caused by cytokine deficiency, e.g.

CC inflammation, anaemia, cytopenia and (pre)cancerous conditions.

XX

SQ Sequence 9 BP; 3 A; 2 C; 1 G; 3 T; 0 other;

Query Match 100.0%; Score 9; DB 16; Length 9;

Best Local Similarity 100.0%; Pred. No. 6.5e+07;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ttctgagaa 9

DB 9 TTCTGAGAA 1

RESULT 2

TT4583/c

ID TT4583 standard; DNA; 9 BP.

XX

AC TT4583;

XX

DT 04-JUN-1997 (first entry)

DE Cytokine activated STAT protein dependent DNA regulatory element.

XX

KM Regulatory element; protein; cytokine; responsive; host cell;

KM transfection; agonist; antagonist; mediated; transcription;

KM modulation; STAT; STAT5; STAT6; signalling pathway; ss.

XX

OS Synthetic.

XX

PN WO9630515-A1.

XX

PD 03-OCT-1996.

XX

PF 25-MAR-1996; 96WO-US04012.

XX

PR 27-MAR-1995; 95US-0411020.

XX

PA (LIGA-) LIGAND PHARM INC.

XX

PI Lamb IP, Seidel HM, Tian Chan S;

XX

DR WPI; 1996-455362/45.

XX

PT DNA construct for screening modulators of cytokine-mediated

PT transcription - contg. regulatory element and a cytokine-sensitive

XX

PS promoter operably linked to a heterologous gene

XX

Claim 5; Page 61; 72pp; English.

XX

CC A novel DNA construct comprises an oligonucleotide (ON) comprising

CC a regulatory element having the present sequence, operably linked

CC to a promoter, which is operably linked to a heterologous gene

CC (preferably a marker gene). The gene is under the transcriptional

CC control of the promoter and the ON sequence when the ON is bound by

CC a STAT protein activated in response to IL-2, IL-3, G-CSF, GM-CSF,

CC erythropoietin, thrombopoietin, or preferably IL-4, IL-7, IL-9,

CC IL-13 or IL-15. Cytokine responsive host cells transfected with the

CC DNA construct can be used to measure the ability of a compound to

CC act as an agonist or antagonist of cytokine mediated gene

CC transcription. In particular, they can be used to screen for

CC cytokine modulators involved in the STAT5 and/or STAT6 protein

CC signalling pathway.

XX

SQ Sequence 9 BP; 3 A; 2 C; 1 G; 3 T; 0 other;

Query Match 100.0%; Score 9; DB 17; Length 9;

Best Local Similarity 100.0%; Pred. No. 6.5e+07;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ttctgagaa 9

DB 9 TTCTGAGAA 1

RESULT 3

V56876/c

ID V56876 standard; DNA; 9 BP.

XX

AC V56876;

XX

DT 02-DEC-1998 (first entry)

DE Regulatory element containing oligonucleotide #35.

XX

KM Cytokine-responsive regulatory; primer; promoter; detection; isolation;

KM transcriptional control; STAT protein; screening; agonist; ss.

XX

OS Synthetic.

XX

PN US5814517-A.

XX

PD 29-SEP-1998.

XX

PF 27-MAR-1995; 95US-0410779.

XX

PR 27-MAR-1995; 95US-0410779.

PR 14-APR-1994; 94US-0228935.

XX

PA (LIGA-) LIGAND PHARM INC.

XX

PI Lamb IP, Seidel HM;

XX

DR WPI; 1998-541763/46.

XX

PT DNA constructs containing cytokine-responsive regulatory elements -

PT useful in assays for transcription-regulating proteins or gene

XX

PS transcription agonists or antagonists

XX

Disclousure; Column 11; 58pp; English.

XX

CC V56842-V56976 and V61601-V61631 are oligonucleotides used in the

CC production of constructs comprising a cytokine-responsive regulatory

CC element linked to a promoter which is linked to a heterologous coding

CC sequence so that the coding sequence is under the transcriptional control

CC of the regulatory element and the promoter, where the regulatory element

CC has a nucleotide sequence selected from TTCTGAGAA, TTATTTAA, and TTCTGTTAA

CC where N is A, T, C or G, and Y = 3 or 4. The constructs can be used to

CC detect or isolate transcription-regulating proteins, e.g. STAT proteins,

CC in a sample by contacting the sample with the construct so that the

CC protein binds to the regulatory element, and detecting or separating the

CC resulting complex. The cells can be used in screening assays for agonists

CC of gene transcription, in which the level of expression of the coding

CC sequence is measured in the presence and absence of a test compound or

CC in the presence of the corresponding cytokine.

XX

SQ Sequence 9 BP; 3 A; 2 C; 1 G; 3 T; 0 other;

Query Match 100.0%; Score 9; DB 19; Length 9;

Best Local Similarity 100.0%; Pred. No. 6.5e+07;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 ttctgagaa 9
 |||||
 Db 9 TTCTGAGAA 1

RESULT 4

X77642/c
 ID X77642 standard; DNA; 11 BP.

XX X77642;

AC 09-AUG-1999 (first entry)

XX N1 active EGS 6.

DE External guide sequence; EGS; target mRNA; identification; diagnostic;

KW Inactivation; essential gene; therapy; ss.

XX Synthetic.

OS MO9927135-A2.

XX 03-JUN-1999.

PD 20-NOV-1998; 98MO-US24854.

PF 30-MAR-1998; 98US-0079851.

PR 21-NOV-1997; 97US-0976220.

XX (INNO-) INNOVIR LAB INC.

PI Kindt TJ, Nilsen TW, Robertson HD;

DR WPI; 1999-357853/30.

XX Identifying and inhibiting functional nucleic acid molecules in

PT cells

PS Example 3; Page 28; 58pp; English.

XX This invention describes a novel method allowing essential or functional
 CC genes to be rapidly identified and inactivated. The method is able to
 CC firstly identify most of the essential genes in an organism (i.e. a
 CC bacteria or a eukaryote) needed for survival, and secondly it provides
 CC for reducing or inactivating their expression. The method is able to
 CC identify functional oligonucleotide molecules able to be used as
 CC diagnostic reagents and therapeutics. The method provides a means for
 CC identifying essential genes whose sequence is known only as part of a
 CC genome with unknown function, as well as a means for identifying
 CC functional oligonucleotide molecules. The method involves the use of a
 CC nucleic acid molecule comprising (a) a first reporter gene encoding a
 CC fusion protein comprising a protein of interest (itself translated from
 CC an RNA of interest) and a reporter protein, a second reporter gene
 CC encoding a second reporter protein, and (c) a targeting gene encoding a
 CC functional oligonucleotide molecule such as an external guide sequence
 CC (EGS), a ribozyme or an antisense RNA and targeted to the RNA of interest
 CC at a site on the first reporter gene able to encode the RNA of interest.
 XX
 SQ Sequence 11 BP; 4 A; 4 C; 1 G; 2 T; 0 other;

Query Match 88.9%; Score 8; DB 20; Length 11;

Best Local Similarity 100.0%; Pred. No. 1.6e+04; Mismatches 0; Indels 0; Gaps 0;

OY 1 ttctgaga 8
 |||||
 Db 9 TTCTGAGA 2

RESULT 5

O53424/c
 ID O53424 standard; DNA; 9 BP.

XX O53424;

AC 16-JUN-1994 (first entry)

XX SIVmac/HIV-1 junction region #3.

DE Junction fragment; vector; simian immunodeficiency virus; SIV; gag;

KW pol; vif; vpx; long terminal repeat; LTR; HIV-1; env; tat; rev;

KW nef; vpr; chimeric virus; replication competent; monkey; mandril;

KW macaque; disease progression; vaccine; epitope; immune response;

KW envelope glycoprotein; cytotoxic T lymphocyte; ss.

XX Synthetic.

OS MO9324632-A.

XX 09-DEC-1993.

PD 20-MAY-1993; 93MO-US04814.

PF 22-MAY-1992; 92US-0887505.

PR (DAND) DANA FARBER CANCER INST INC.

PA (HARD) HARVARD COLLEGE.

XX Haseltine WA, Letvin N, Li J, Sodroski J;

DR WPI; 1993-405823/50.

XX Hybrid SIV-HIV-1 viral vectors - used to provide animal models

PT for HIV-1 infection or a therapeutic agents or in vaccines for

PT HIV-1

PS Disclosure; Fig 1C; 72pp; English.

XX The sequences given in O53422-28 represent junction fragments which
 CC were used in the construction the vectors of the invention. These
 CC vectors contain a 5' DNA segment which contains a sufficient number
 CC of nucleotides corresponding to a simian immunodeficiency virus (SIV)
 CC genome to encode a functional gag, pol, vif and vpx protein and has
 CC a SIV long terminal repeat (LTR), and a 3' DNA segment which contains
 CC a sufficient number of nucleotides corresponding to at least one
 CC HIV-1 genome to encode a functional HIV-1 env, tat and rev protein
 CC and a sufficient number of nucleotides corresponding to a SIV genome
 CC to encode a functional nef protein and has a SIV LTR. The vector
 CC further comprises a sufficient number of nucleotides corresponding to
 CC the SIV genome to encode a functional SIV vpr protein. Vectors such
 CC as these produce chimeric viruses containing HIV-1 components. As a
 CC result of transfecting cells with these vectors, replication competent
 CC viruses that are infectious in animal systems such as monkeys, eg.
 CC mandrills, macaques, etc. can be produced. The vectors can be used for
 CC creating an animal model for studying disease progression by HIV-1,
 CC for screening for compounds exhibiting anti-HIV activity, for screening
 CC for a vaccine against HIV infection and for determining the specific
 CC epitopes of a HIV-1 envelope glycoprotein recognised by cytotoxic T
 CC lymphocytes. They can also be used to boost immune response in a HIV
 CC infected individual or as a vaccine to prevent infection.
 XX
 SQ Sequence 9 BP; 3 A; 1 C; 1 G; 4 T; 0 other;

Query Match 82.2%; Score 7.4; DB 14; Length 9;

Best Local Similarity 88.9%; Pred. No. 6.5e+07; Mismatches 1; Indels 0; Gaps 0;

OY 1 ttctgagaa 9
 |||||
 Db 9 TTCTGAGAA 1

RESULT 6

T14165

ID T14165 standard; DNA; 9 BP.
 XX
 AC T14165;
 XX
 DT 29-MAY-1996 (first entry)
 XX
 DE Cytokine responsive DNA spacer regulatory element.
 XX
 KM Regulatory element; transcriptional regulatory protein;
 KM signalling molecule; DNA spacer; agonist; antagonist; anaemia;
 KM gene transcription; inflammation; cytopenia; cancer; ss.
 XX
 OS Synthetic.
 XX
 PN MO9528482-A2.
 XX
 PD 26-OCT-1995.
 XX
 PF 10-APR-1995; 95WO-US04477.
 XX
 PR 27-MAR-1995; 95US-0410780.
 PR 14-APR-1994; 94US-0228935.
 XX
 PA (LIGA-) LIGAND PHARM INC.
 XX
 PI Lamb IP, Seidel HM;
 XX
 DR WPI; 1995-373797/48.
 XX
 PT DNA spacer regulatory elements responsive to cytokine(s) - for
 PT detecting the presence of transcriptional regulatory protein in a
 PT sample
 XX
 PS Claim 7; Page 125; 135pp; English.
 XX
 CC The present oligonucleotide comprises a regulatory element
 CC TT(Nx)AA, where x is 4-7, and the regulatory element binds an
 CC activated transcriptional regulatory protein in response to a
 CC signalling mol., i.e. a cytokine. This cytokine responsive DNA
 CC spacer regulatory element can be used to detect the presence of
 CC a transcriptional regulatory protein in a sample, and in assays
 CC for (ant)agonists of gene transcription. The identified cpds.
 CC may be used to treat cytokine-induced disease states, or to
 CC ameliorate disease states caused by cytokine deficiency, e.g.
 CC inflammation, anaemia, cytopenia and (pre)cancerous conditions.
 CC
 XX
 SQ Sequence 9 BP; 4 A; 1 C; 1 G; 3 T; 0 other;
 XX
 Query Match 82.2%; Score 7.4; DB 16; Length 9;
 Best local Similarity 88.9%; Pred. No. 6.5e+07;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 ttctgagaa 9
 |||||
 DB 1 ttctagaa 9
 |||||
 RESULT 7
 T14165/c
 ID T14165 standard; DNA; 9 BP.
 XX
 AC T14165;
 XX
 DT 29-MAY-1996 (first entry)
 XX
 DE Cytokine responsive DNA spacer regulatory element.
 XX
 KM Regulatory element; transcriptional regulatory protein;
 KM signalling molecule; DNA spacer; agonist; antagonist; anaemia;
 KM gene transcription; inflammation; cytopenia; cancer; ss.
 XX
 OS Synthetic.
 XX
 PI

XX
 PN MO9528482-A2.
 XX
 PD 26-OCT-1995.
 XX
 PF 10-APR-1995; 95WO-US04477.
 XX
 PR 27-MAR-1995; 95US-0410780.
 PR 14-APR-1994; 94US-0228935.
 XX
 PA (LIGA-) LIGAND PHARM INC.
 XX
 PI Lamb IP, Seidel HM;
 XX
 DR WPI; 1995-373797/48.
 XX
 PT DNA spacer regulatory elements responsive to cytokine(s) - for
 PT detecting the presence of transcriptional regulatory protein in a
 PT sample
 XX
 PS Claim 7; Page 125; 135pp; English.
 XX
 CC The present oligonucleotide comprises a regulatory element
 CC TT(Nx)AA, where x is 4-7, and the regulatory element binds an
 CC activated transcriptional regulatory protein in response to a
 CC signalling mol., i.e. a cytokine. This cytokine responsive DNA
 CC spacer regulatory element can be used to detect the presence of
 CC a transcriptional regulatory protein in a sample, and in assays
 CC for (ant)agonists of gene transcription. The identified cpds.
 CC may be used to treat cytokine-induced disease states, or to
 CC ameliorate disease states caused by cytokine deficiency, e.g.
 CC inflammation, anaemia, cytopenia and (pre)cancerous conditions.
 CC
 XX
 SQ Sequence 9 BP; 4 A; 1 C; 1 G; 3 T; 0 other;
 XX
 Query Match 82.2%; Score 7.4; DB 16; Length 9;
 Best local Similarity 88.9%; Pred. No. 6.5e+07;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 ttctgagaa 9
 |||||
 DB 9 TTTCTTAGAA 1
 |||||
 RESULT 8
 T14149
 ID T14149 standard; DNA; 9 BP.
 XX
 AC T14149;
 XX
 DT 29-MAY-1996 (first entry)
 XX
 DE Cytokine responsive DNA spacer regulatory element.
 XX
 KM Regulatory element; transcriptional regulatory protein;
 KM signalling molecule; DNA spacer; agonist; antagonist; anaemia;
 KM gene transcription; inflammation; cytopenia; cancer; ss.
 XX
 OS Synthetic.
 XX
 PN MO9528482-A2.
 XX
 PD 26-OCT-1995.
 XX
 PF 10-APR-1995; 95WO-US04477.
 XX
 PR 27-MAR-1995; 95US-0410780.
 PR 14-APR-1994; 94US-0228935.
 XX
 PA (LIGA-) LIGAND PHARM INC.
 XX
 PI Lamb IP, Seidel HM;
 XX

XX WPI; 1995-373797/48.
 DR DNA spacer regulatory elements responsive to cytokine(s) - for
 XX detecting the presence of transcriptional regulatory protein in a
 PT sample
 PS Claim 7; Page 125; 135pp; English.
 XX
 CC The present oligonucleotide comprises a regulatory element
 CC TT(N_x)A_n, where x is 4-7, and the regulatory element binds an
 CC signalling mol., i.e. a cytokine. This cytokine responsive DNA
 CC spacer regulatory element can be used to detect the presence of
 CC a transcriptional regulatory protein in a sample, and in assays
 CC for (ant)agonists of gene transcription. The identified cpds.
 CC may be used to treat cytokine-induced disease states, or to
 CC ameliorate disease states caused by cytokine deficiency, e.g.
 CC inflammation, anaemia, cytopenia and (pre)cancerous conditions.
 XX
 SO Sequence 9 BP; 3 A; 2 C; 1 G; 3 T; 0 other;
 Query Match 82.2%; Score 7.4; DB 16; Length 9;
 Best Local Similarity 88.9%; Pred. No. 6.5e+07;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 ttctgagaa 9
 Db 1 ttctcagaa 9
 RESULT 9
 ID T14145/C
 AC T14145 standard; DNA; 9 BP.
 XX
 AC T14145;
 XX
 DT 29-MAY-1996 (first entry)
 DE Cytokine responsive DNA spacer regulatory element.
 XX
 XX Regulatory element; transcriptional regulatory protein;
 KM signalling molecule; DNA spacer; agonist; antagonist; anaemia;
 KM gene transcription; inflammation; cytopenia; cancer; ss.
 XX
 OS Synthetic.
 XX
 PN WO9528482-A2.
 XX
 PD 26-OCT-1995.
 XX
 PF 10-APR-1995; 95WO-US04477.
 XX
 PR 27-MAR-1995; 95US-0410780.
 PR 14-APR-1994; 94US-0228935.
 XX
 PA (LIGA-) LIGAND PHARM INC.
 XX
 PI Lamb IP, Seidel HM;
 XX
 DR WPI; 1995-373797/48.
 XX
 PT DNA spacer regulatory elements responsive to cytokine(s) - for
 PT detecting the presence of transcriptional regulatory protein in a
 PT sample
 XX
 PS Claim 7; Page 125; 135pp; English.
 XX
 CC The present oligonucleotide comprises a regulatory element
 CC TT(N_x)A_n, where x is 4-7, and the regulatory element binds an
 CC activated transcriptional regulatory protein in response to a
 CC signalling mol., i.e. a cytokine. This cytokine responsive DNA

CC spacer regulatory element can be used to detect the presence of
 CC a transcriptional regulatory protein in a sample, and in assays
 CC for (ant)agonists of gene transcription. The identified cpds.
 CC may be used to treat cytokine-induced disease states, or to
 CC ameliorate disease states caused by cytokine deficiency, e.g.
 CC inflammation, anaemia, cytopenia and (pre)cancerous conditions.
 XX
 SO Sequence 9 BP; 3 A; 3 C; 1 G; 2 T; 0 other;
 Query Match 82.2%; Score 7.4; DB 16; Length 9;
 Best Local Similarity 88.9%; Pred. No. 6.5e+07;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 ttctgagaa 9
 Db 9 TTCGCGGAA 1
 RESULT 10
 ID T41582
 AC T41582 standard; DNA; 9 BP.
 XX
 AC T41582;
 XX
 DT 04-JUN-1997 (first entry)
 DE Cytokine activated STAT protein dependent DNA regulatory element.
 XX
 XX Regulatory element; protein; cytokine; responsive; host cell;
 KM transfection; agonist; antagonist; mediated; transcription;
 KM modulation; STAT; STAT5; STAT6; signalling pathway; ss.
 XX
 OS Synthetic.
 XX
 PN WO9630515-A1.
 XX
 PD 03-OCT-1996.
 XX
 PF 25-MAR-1996; 96WO-US04012.
 XX
 PR 27-MAR-1995; 95US-0411020.
 XX
 PA (LIGA-) LIGAND PHARM INC.
 XX
 PI Lamb IP, Seidel HM, Tian Chan S;
 XX
 DR WPI; 1996-455362/45.
 XX
 PT DNA construct for screening modulators of cytokine-mediated
 PT transcription - contg. regulatory element and a cytokine-sensitive
 PT promoter operably linked to a heterologous gene
 XX
 PS Claim 5; Page 61; 72pp; English.
 XX
 CC A novel DNA construct comprises an oligonucleotide (ON) comprising
 CC a regulatory element having the present sequence, operably linked
 CC to a promoter, which is operably linked to a heterologous gene
 CC (preferably a marker gene). The gene is under the transcriptional
 CC control of the promoter and the ON sequence when the ON is bound by
 CC a STAT protein activated in response to IL-2, IL-3, G-CSF, GM-CSF,
 CC erythropoietin, thrombopoietin, or preferably IL-4, IL-7, IL-9,
 CC IL-13 or IL-15. Cytokine responsive host cells transfected with the
 CC DNA construct can be used to measure the ability of a compound to
 CC act as an agonist or antagonist of cytokine mediated gene
 CC transcription. In particular, they can be used to screen for
 CC cytokine modulators involved in the STAT5 and/or STAT6 protein
 CC signalling pathway.
 XX
 SO Sequence 9 BP; 4 A; 1 C; 1 G; 3 T; 0 other;
 Query Match 82.2%; Score 7.4; DB 17; Length 9;

Best Local Similarity 88.9%; Pred. No. 6.5e+07;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 ttctgaga 9
| | | | |
Db 1 ttctgaga 9

RESULT 11
T41582/C
ID T41582 standard; DNA: 9 BP.

AC T41582;

DT 04-JUN-1997 (first entry)

XX Cytokine activated STAT protein dependent DNA regulatory element.

XX Regulatory element; protein; cytokine; responsive; host cell;

KW transfection; agonist; antagonist; mediated; transcription;

KM modulation; STAT; STAT5; STAT6; signalling pathway; ss.

XX Synthetic.

OS

PN WO9630515-A1.

PD 03-OCT-1996.

PF 25-MAR-1996; 96WO-US04012.

PR 27-MAR-1995; 95US-0411020.

PA (LIGA-) LIGAND PHARM INC.

PI Lamb IP, Seidel HM, Tian Chan S;

DR WPI; 1996-455362/45.

XX DNA construct for screening modulators of cytokine-mediated

PT transcription - contg. regulatory element and a cytokine-sensitive

PT promoter operably linked to a heterologous gene

XX Claim 5; Page 61; 72pp; English.

PS A novel DNA construct comprises an oligonucleotide (ON) comprising

CC a regulatory element having the present sequence, operably linked

CC (preferably a marker gene). The gene is under the transcriptional

CC control of the promoter and the ON sequence when the ON is bound by

CC a STAT protein activated in response to IL-2, IL-3, G-CSF, GM-CSF,

CC erythropoietin, thrombopoietin, or preferably IL-4, IL-7, IL-9,

CC IL-13 or IL-15. Cytokine responsive host cells transfected with the

CC DNA construct can be used to measure the ability of a compound to

CC act as an agonist or antagonist of cytokine mediated gene

CC transcription. In particular, they can be used to screen for

CC cytokine modulators involved in the STAT5 and/or STAT6 protein

CC signalling pathway.

SO Sequence 9 BP; 4 A; 1 G; 3 T; 0 other;

Query Match 82.2%; Score 7.4; DB 17; Length 9;

Best Local Similarity 88.9%; Pred. No. 6.5e+07;

Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 ttctgaga 9
| | | | |
Db 9 TTCTTAGAA 1

RESULT 12

T41583
ID T41583 standard; DNA: 9 BP.

XX T41583;

AC T41582;

DT 04-JUN-1997 (first entry)

XX Cytokine activated STAT protein dependent DNA regulatory element.

XX Regulatory element; protein; cytokine; responsive; host cell;

KW transfection; agonist; antagonist; mediated; transcription;

KM modulation; STAT; STAT5; STAT6; signalling pathway; ss.

XX Synthetic.

OS

PN WO9630515-A1.

PD 03-OCT-1996.

PF 25-MAR-1996; 96WO-US04012.

PR 27-MAR-1995; 95US-0411020.

PA (LIGA-) LIGAND PHARM INC.

PI Lamb IP, Seidel HM, Tian Chan S;

DR WPI; 1996-455362/45.

XX DNA construct for screening modulators of cytokine-mediated

PT transcription - contg. regulatory element and a cytokine-sensitive

PT promoter operably linked to a heterologous gene

XX Claim 5; Page 61; 72pp; English.

PS A novel DNA construct comprises an oligonucleotide (ON) comprising

CC a regulatory element having the present sequence, operably linked

CC (preferably a marker gene). The gene is under the transcriptional

CC control of the promoter and the ON sequence when the ON is bound by

CC a STAT protein activated in response to IL-2, IL-3, G-CSF, GM-CSF,

CC erythropoietin, thrombopoietin, or preferably IL-4, IL-7, IL-9,

CC IL-13 or IL-15. Cytokine responsive host cells transfected with the

CC DNA construct can be used to measure the ability of a compound to

CC act as an agonist or antagonist of cytokine mediated gene

CC transcription. In particular, they can be used to screen for

CC cytokine modulators involved in the STAT5 and/or STAT6 protein

CC signalling pathway.

SO Sequence 9 BP; 3 A; 2 C; 1 G; 3 T; 0 other;

Query Match 82.2%; Score 7.4; DB 17; Length 9;

Best Local Similarity 88.9%; Pred. No. 6.5e+07;

Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 ttctgaga 9
| | | | |
Db 1 ttctgaga 9

RESULT 13

V56892
ID V56892 standard; DNA: 9 BP.

AC V56892;

DT 02-DEC-1998 (first entry)

XX Regulatory element containing oligonucleotide #51.

XX Cytokine-responsive regulatory; primer; promoter; detection; isolation;

KW transcriptional control; STAT protein; screening; agonist; ss.

XX Synthetic.

XX US5814517-A.
 XX 29-SEP-1998.
 XX
 XX 27-MAR-1995; 95US-0410779.
 XX
 XX 27-MAR-1995; 95US-0410779.
 XX 14-APR-1994; 94US-0228935.
 XX
 XX (LIGA-) LIGAND PHARM INC.
 XX
 XX Lamb IP, Seidel HM;
 XX
 XX WPI; 1998-541763/46.
 XX
 XX DNA constructs containing cytokine-responsive regulatory elements -
 XX useful in assays for transcription-regulating proteins or gene
 XX transcription agonists or antagonists
 XX
 XX PS Disclosure; Column 12; 58pp; English.
 XX
 XX V56842-V56976 and V61601-V61631 are oligonucleotides used in the
 CC production of constructs comprising a cytokine-responsive regulatory
 CC element linked to a promoter which is linked to a heterologous coding
 CC sequence so that the coding sequence is under the transcriptional control
 CC of the regulatory element and the promoter, where the regulatory element
 CC has a nucleotide sequence selected from TTCNNGAA, TTANYTAA, and TTCNYTAA
 CC where N is A, T, C or G, and Y = 3 or 4. The constructs can be used to
 CC detect or isolate transcription-regulating proteins, e.g. STAT proteins,
 CC in a sample by contacting the sample with the construct so that the
 CC protein binds to the regulatory element, and detecting or separating the
 CC resulting complex. The cells can be used in screening assays for agonists
 CC of gene transcription, in which the level of expression of the coding
 CC sequence is measured in the presence and absence of a test compound or
 CC in the presence of the corresponding cytokine.
 CC
 CC SQ Sequence 9 BP; 4 A; 1 C; 1 G; 3 T; 0 other;
 CC
 CC Query Match 82.2%; Score 7.4; DB 19; Length 9;
 CC Best Local Similarity 88.9%; Pred. No. 6.5e+07;
 CC Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 CC
 CC QY 1 ttctgagaa 9
 CC 1 ttcttaagaa 9
 CC
 CC Db
 CC
 CC RESULT 14
 CC V56892/c
 CC ID V56892 standard; DNA; 9 BP.
 CC
 CC AC V56892;
 CC
 CC DT 02-DEC-1998 (first entry)
 CC
 CC DE Regulatory element containing oligonucleotide #51.
 CC
 CC XX Cytokine-responsive regulatory; primer; promoter; detection; isolation;
 CC KM transcriptional control; STAT protein; screening; agonist; ss.
 CC
 CC OS Synthetic.
 CC
 CC XX US5814517-A.
 CC PN
 CC XX 29-SEP-1998.
 CC PD
 CC XX 27-MAR-1995; 95US-0410779.
 CC PF
 CC XX 27-MAR-1995; 95US-0410779.
 CC PR 14-APR-1994; 94US-0228935.
 CC PR
 CC XX

PA (LIGA-) LIGAND PHARM INC.
 XX
 XX Lamb IP, Seidel HM;
 XX
 XX WPI; 1998-541763/46.
 XX
 XX DNA constructs containing cytokine-responsive regulatory elements -
 XX useful in assays for transcription-regulating proteins or gene
 XX transcription agonists or antagonists
 XX
 XX PS Disclosure; Column 12; 58pp; English.
 XX
 XX V56842-V56976 and V61601-V61631 are oligonucleotides used in the
 CC production of constructs comprising a cytokine-responsive regulatory
 CC element linked to a promoter which is linked to a heterologous coding
 CC sequence so that the coding sequence is under the transcriptional control
 CC of the regulatory element and the promoter, where the regulatory element
 CC has a nucleotide sequence selected from TTCNNGAA, TTANYTAA, and TTCNYTAA
 CC where N is A, T, C or G, and Y = 3 or 4. The constructs can be used to
 CC detect or isolate transcription-regulating proteins, e.g. STAT proteins,
 CC in a sample by contacting the sample with the construct so that the
 CC protein binds to the regulatory element, and detecting or separating the
 CC resulting complex. The cells can be used in screening assays for agonists
 CC of gene transcription, in which the level of expression of the coding
 CC sequence is measured in the presence and absence of a test compound or
 CC in the presence of the corresponding cytokine.
 CC
 CC SQ Sequence 9 BP; 4 A; 1 C; 1 G; 3 T; 0 other;
 CC
 CC Query Match 82.2%; Score 7.4; DB 19; Length 9;
 CC Best Local Similarity 88.9%; Pred. No. 6.5e+07;
 CC Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 CC
 CC QY 1 ttctgagaa 9
 CC 9 TTCTTAGAA 1
 CC
 CC Db
 CC
 CC RESULT 15
 CC V56876
 CC ID V56876 standard; DNA; 9 BP.
 CC
 CC AC V56876;
 CC
 CC DT 02-DEC-1998 (first entry)
 CC
 CC DE Regulatory element containing oligonucleotide #35.
 CC
 CC XX Cytokine-responsive regulatory; primer; promoter; detection; isolation;
 CC KM transcriptional control; STAT protein; screening; agonist; ss.
 CC
 CC OS Synthetic.
 CC
 CC XX US5814517-A.
 CC PN
 CC XX 29-SEP-1998.
 CC PD
 CC XX 27-MAR-1995; 95US-0410779.
 CC PF
 CC XX 27-MAR-1995; 95US-0410779.
 CC PR 14-APR-1994; 94US-0228935.
 CC PR
 CC XX (LIGA-) LIGAND PHARM INC.
 CC
 CC XX Lamb IP, Seidel HM;
 CC PI
 CC XX WPI; 1998-541763/46.
 CC DR
 CC XX DNA constructs containing cytokine-responsive regulatory elements -
 CC useful in assays for transcription-regulating proteins or gene
 CC transcription agonists or antagonists
 CC
 CC PT
 CC XX

PS Disclosure: Column 11: 58bp; English.
 XX
 CC V56842-V56976 and V61601-V61631 are oligonucleotides used in the
 CC production of constructs comprising a cytokine-responsive regulatory
 CC element linked to a promoter which is linked to a heterologous coding
 CC sequence so that the coding sequence is under the transcriptional control
 CC of the regulatory element and the promoter, where the regulatory element
 CC has a nucleotide sequence selected from TTCNNGAA, TTANYTAA, and TTCNYTAA
 CC where N is A, T, C or G, and Y - 3 or 4. The constructs can be used to
 CC detect or isolate transcription-regulating proteins, e.g. STAT proteins,
 CC in a sample by contacting the sample with the construct so that the
 CC protein binds to the regulatory element, and detecting or separating the
 CC resulting complex. The cells can be used in screening assays for agonists
 CC of gene transcription, in which the level of expression of the coding
 CC sequence is measured in the presence and absence of a test compound or
 CC in the presence of the corresponding cytokine.
 XX
 SO Sequence 9 BP; 3 A; 2 C; 1 G; 3 T; 0 other;

Query Match 82.2%; Score 7.4; DB 19; Length 9;
 Best Local Similarity 88.9%; Pred. No. 6.5e+07;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 ttctgagaa 9
 |||||
 Db 1 ttctcagaa 9

Search completed: April 21, 2001, 13:14:35
 Job time: 3601 sec

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OM nucleic - nucleic search, using sw model

Run on: April 21, 2001, 11:42:58 ; Search time 1240.49 Seconds
(without alignments)
44.677 Million cell updates/sec

Title: SHORT
Perfect score: 9
Sequence: 1 ttctgagaa 9

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1283235 seqs, 3078962356 residues

Total number of hits satisfying chosen parameters: 15938

Minimum DB seq length: 0
Maximum DB seq length: 12

Post-processing: Maximum Match 0%
Listing first 45 summaries

Database :

GenEmbl:*

- 1: gb_ba1:*
- 2: gb_ba2:*
- 3: gb_ba3:*
- 4: gb_in1:*
- 5: gb_in2:*
- 6: gb_in3:*
- 7: gb_om:*
- 8: gb_ov:*
- 9: gb_pat1:*
- 10: gb_pat2:*
- 11: gb_ph:*
- 12: gb_pi1:*
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- 20: em_higo_inv:*
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- 94: gb_pi1:*
- 95: gb_rod:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
c 1	7.4	82.2	9	AX041991	AX041991 Sequence
c 2	7.4	82.2	10	AR043683	AR043683 Sequence
c 3	7.4	82.2	10	AR043683	AR043683 Sequence
c 4	7.4	82.2	11	AR097294	AR097294 Sequence
c 5	7.4	82.2	11	AX063653	AX063653 Sequence
c 6	7.4	82.2	11	AX063656	AX063656 Sequence
c 7	7.4	82.2	11	I39722	I39722 Sequence
c 8	7.4	82.2	11	I55839	I55839 Sequence
c 9	7.4	82.2	12	S75371	S75371 beta-hexosa
c 10	7.4	82.2	12	S75371	S75371 beta-hexosa
c 11	7.4	82.2	8	AR101594	AR101594 Sequence

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C 12 7 77.8 10 9 A41392 A41392 Sequence 18
C 13 7 77.8 11 9 A24764 A24764 Oligonucleo
C 14 7 77.8 11 9 AR074369 AR074369 Sequence
C 15 7 77.8 12 9 A06058 A06058 Synthetic p
C 16 7 77.8 12 9 A06059 A06059 Synthetic p
C 17 7 77.8 12 9 A16601 A16601 Nucleotide
C 18 7 77.8 12 9 A16602 A16602 Nucleotide
C 19 7 77.8 12 9 A16904 A16904 Sequence 13
C 20 7 77.8 12 10 A01725 A01725 Vector DNA
C 21 6 73.3 12 9 A01725 A01725 Vector DNA
C 22 6 66.7 12 9 A01735 A01735 Vector DNA
C 23 6 64 71.1 10 9 AR101591 AR101591 Sequence
C 24 6 64 71.1 10 9 E17310 E17310 PCR primer
C 25 6 64 71.1 11 9 A62062 A62062 Sequence 48
C 26 6 64 71.1 12 9 A71450 A71450 Sequence 9
C 27 6 64 71.1 12 9 A87963 A87963 Sequence 11
C 28 6 64 71.1 12 9 A89930 A89930 Sequence 11
C 29 6 64 71.1 12 9 AX059219 AX059219 Sequence
C 30 6 64 71.1 12 10 AX069323 AX069323 Sequence
C 31 6 64 71.1 12 10 I39779 I39779 Sequence 52
C 32 6 66.7 8 9 AR101242 AR101242 Sequence
C 33 6 66.7 8 9 AR101244 AR101244 Sequence
C 34 6 66.7 8 9 AR101294 AR101294 Sequence
C 35 6 66.7 8 9 AR101393 AR101393 Sequence
C 36 6 66.7 8 9 AR101394 AR101394 Sequence
C 37 6 66.7 8 9 AR101395 AR101395 Sequence
C 38 6 66.7 8 9 AR101540 AR101540 Sequence
C 39 6 66.7 8 9 AR101582 AR101582 Sequence
C 40 6 66.7 8 9 AR101590 AR101590 Sequence
C 41 6 66.7 9 93 S75375 S75375 beta-hexosa
C 42 6 66.7 10 9 AR042901 AR042901 Sequence
C 43 6 66.7 10 10 I22208 I22208 Sequence 22
C 44 6 66.7 10 10 I75076 I75076 Sequence 6
C 45 6 66.7 10 59 S77264 S77264 {3' terminu

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ALIGNMENTS

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RESULT 1
LOCUS AX041991/c
DEFINITION Sequence 21 from Patent WO0065067.
ACCESSION AX041991
VERSION AX041991.1 GI:11340754
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
TITLE 1 (bases 1 to 9)
JOURNAL Nelson, P.S., Hood, L. and Lin, B.
FEATURES
source prostate-specific polynucleotides, polypeptides and their methods
of use
Patent: WO 0065067-A 21 02-NOV-2000;
The University of Washington (US)
LOCATION/Qualifiers
protein_bind 1..9
BASE COUNT 3 a 3 c 1 g 2 t
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Query Match 82.2%; Score 7.4; DB 9; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.6e+09;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 ttctgagaa 9
DB 9 TTCTGGGAA 1

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RESULT 2
LOCUS AR043683
DEFINITION Sequence 53 from patent US 5814517.
ACCESSION AR043683
VERSION AR043683.1 GI:5964691
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 10)
AUTHORS Seidel, H. Martin and Lamb, I. Peter.
TITLE DNA spacer regulatory elements responsive to cytokines and methods
for their use
JOURNAL Patent: US 5814517-A 53 29-SEP-1996;
FEATURES
source location/Qualifiers
BASE COUNT 4 a 1 c 1 g 4 t
ORIGIN

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Query Match 82.2%; Score 7.4; DB 9; Length 10;
Best Local Similarity 88.9%; Pred. No. 1.2e+06;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 ttctgagaa 9
DB 2 TTCTAGAGAA 10

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RESULT 3
LOCUS AR043683/c
DEFINITION Sequence 53 from patent US 5814517.
ACCESSION AR043683
VERSION AR043683.1 GI:5964691
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 10)
AUTHORS Seidel, H. Martin and Lamb, I. Peter.
TITLE DNA spacer regulatory elements responsive to cytokines and methods
for their use
JOURNAL Patent: US 5814517-A 53 29-SEP-1996;
FEATURES
source location/Qualifiers
BASE COUNT 4 a 1 c 1 g 4 t
ORIGIN

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Query Match 82.2%; Score 7.4; DB 9; Length 10;
Best Local Similarity 88.9%; Pred. No. 1.2e+06;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 ttctgagaa 9
DB 10 TTCTTAGAA 2

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RESULT 4
LOCUS AR097294
DEFINITION Sequence 17 from patent US 6071700.
ACCESSION AR097294
VERSION AR097294.1 GI:12806024
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.

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Unclassified.

1 (bases 1 to 11)

AUTHORS He, F. and Jacobson, A. S.

TITLE Heterologous polypeptide production in the absence of

nonsense-mediated mRNA decay functions

JOURNAL Patent: US 6071700-A 17 06-JUN-2000;

FEATURES Location/Qualifiers

1. 11

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BASE COUNT 3 a 2 c 2 g 4 t

ORIGIN

Query Match 82.2%; Score 7.4; DB 9; Length 11;
 Best Local Similarity 88.9%; Pred. No. 1.1e+06;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 ttctgagaa 9
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 Db 2 TTTTGAGAA 10

RESULT 5

AX063653 11 bp DNA PAT 24-JAN-2001

LOCUS Sequence 37 from Patent WO0100817.

ACCESSION AX063653

VERSION AX063653.1 GI:12541377

KEYWORDS synthetic construct.

SOURCE synthetic construct.

ORGANISM artificial sequence.

REFERENCE 1 (bases 1 to 11)

AUTHORS Morgan, A. R. and Severini, A.

TITLE Compositions and methods for determining the activity of

dna-binding proteins and of initiation of transcription

JOURNAL Patent: WO 0100817-A 37 04-JAN-2001;

FEATURES DNAB Diagnostics, Inc. (CA)

Location/Qualifiers

1. 11

/organism="synthetic construct"

/db_xref="taxon:32630"

/note="Synthetic"

BASE COUNT 2 a 1 c 3 g 5 t

ORIGIN

Query Match 82.2%; Score 7.4; DB 9; Length 11;
 Best Local Similarity 88.9%; Pred. No. 1.1e+06;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 ttctgagaa 9
 ||||| |||
 Db 1 TTCTGGGAA 9

RESULT 6

AX063656 11 bp DNA PAT 24-JAN-2001

LOCUS Sequence 40 from Patent WO0100817.

ACCESSION AX063656

VERSION AX063656.1 GI:12541380

KEYWORDS synthetic construct.

SOURCE synthetic construct.

ORGANISM artificial sequence.

REFERENCE 1 (bases 1 to 11)

AUTHORS Morgan, A. R. and Severini, A.

TITLE Compositions and methods for determining the activity of

dna-binding proteins and of initiation of transcription

JOURNAL Patent: WO 0100817-A 40 04-JAN-2001;

FEATURES DNAB Diagnostics, Inc. (CA)

Location/Qualifiers

source 1. 11

/organism="synthetic construct"

/db_xref="taxon:32630"

/note="Synthetic"

BASE COUNT 4 a 3 c 1 g 3 t

ORIGIN

Query Match 82.2%; Score 7.4; DB 9; Length 11;
 Best Local Similarity 88.9%; Pred. No. 1.1e+06;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 ttctgagaa 9
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 Db 10 TTCTGGGAA 2

RESULT 7

I39722 11 bp DNA PAT 13-MAY-1997

LOCUS Sequence 9 from patent US 5616489.

ACCESSION I39722

VERSION I39722.1 GI:2084202

KEYWORDS Unknown.

SOURCE Unknown.

ORGANISM Unknown.

REFERENCE 1 (bases 1 to 11)

AUTHORS Levy, D. E.

TITLE DNA sequence which binds transcriptional regulatory proteins

activated in response to various cytokines and uses thereof

JOURNAL Patent: US 5616489-A 9 01-APR-1997;

FEATURES Location/Qualifiers

1. 11

/organism="unknown"

BASE COUNT 3 a 1 c 3 g 4 t

ORIGIN

Query Match 82.2%; Score 7.4; DB 10; Length 11;
 Best Local Similarity 88.9%; Pred. No. 1.1e+06;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 ttctgagaa 9
 ||||| |||
 Db 2 TTCTGGGAA 10

RESULT 8

I55839 11 bp DNA PAT 07-OCT-1997

LOCUS Sequence 9 from patent US 5648217.

ACCESSION I55839

VERSION I55839.1 GI:2476633

KEYWORDS Unknown.

SOURCE Unknown.

ORGANISM Unknown.

REFERENCE 1 (bases 1 to 11)

AUTHORS Levy, D. E.

TITLE DNA sequence which binds transcriptional regulatory proteins

activated in response to various cytokines and uses thereof

JOURNAL Patent: US 5648217-A 9 15-JUL-1997;

FEATURES Location/Qualifiers

1. 11

/organism="unknown"

BASE COUNT 3 a 1 c 3 g 4 t

ORIGIN

Query Match 82.2%; Score 7.4; DB 10; Length 11;
 Best Local Similarity 88.9%; Pred. No. 1.1e+06;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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OY      1 ttctgagaa 9
        ||||| |||
Db      2 TTCTGGCAA 10

RESULT  9
LOCUS   S75371      12 bp      mRNA      PRI      07-MAY-1993
DEFINITION beta-hexosaminidase A (exon 8) [human, mRNA Partial Mutant, 12 nt].
ACCESSION S75371
VERSION   S75371.1 GI:241964
KEYWORDS
SOURCE   human.
ORGANISM Homo sapiens
          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE 1 (bases 1 to 12)
AUTHORS   Akil, S., Chelly, J., Lacorte, J.M., Poenaru, L. and Kahn, A.
TITLE     Seven novel Tay-Sachs mutations detected by chemical mismatch
          cleavage of PCR-amplified cDNA fragments
JOURNAL   Genomics 11 (1), 124-134 (1991)
MEDLINE   92112203
REMARK    Genbank staff at the National Library of Medicine created this
          entry [NCBI glibsg 75371] from the original journal article.
          This sequence comes from Figure 4.D.
          Location/Qualifiers
            1..12
              /organism="Homo sapiens"
              /db_xref="taxon:9606"
              /partial
            gene
BASE COUNT      5 a      2 c      1 g      4 t
ORIGIN
Query Match
Best Local Similarity 82.2%; Score 7.4; DB 93; Length 12;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      1 ttctgagaa 9
        ||||| |||
Db      4 TTCTTAGAA 12

RESULT 10
LOCUS   S75371      12 bp      mRNA      PRI      07-MAY-1993
DEFINITION beta-hexosaminidase A (exon 8) [human, mRNA Partial Mutant, 12 nt].
ACCESSION S75371
VERSION   S75371.1 GI:241964
KEYWORDS
SOURCE   human.
ORGANISM Homo sapiens
          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE 1 (bases 1 to 12)
AUTHORS   Akil, S., Chelly, J., Lacorte, J.M., Poenaru, L. and Kahn, A.
TITLE     Seven novel Tay-Sachs mutations detected by chemical mismatch
          cleavage of PCR-amplified cDNA fragments
JOURNAL   Genomics 11 (1), 124-134 (1991)
MEDLINE   92112203
REMARK    Genbank staff at the National Library of Medicine created this
          entry [NCBI glibsg 75371] from the original journal article.
          This sequence comes from Figure 4.D.
          Location/Qualifiers
            1..12
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              /partial
            gene
BASE COUNT      5 a      2 c      1 g      4 t
ORIGIN

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BASE COUNT      5 a      2 c      1 g      4 t
ORIGIN
Query Match
Best Local Similarity 82.2%; Score 7.4; DB 93; Length 12;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      1 ttctgagaa 9
        ||||| |||
Db      12 TTCTAGCAA 4

RESULT 11
LOCUS   AR101594      8 bp      DNA      PAT      14-FEB-2001
DEFINITION Sequence 516 from patent US 6083695.
ACCESSION AR101594
VERSION   AR101594.1 GI:12812392
KEYWORDS
SOURCE   Unknown.
ORGANISM Unknown.
          Unclassified.
REFERENCE 1 (bases 1 to 8)
AUTHORS   Hardin, S.Houck, Homayouni, R. and Hardin, P.Eric.
TITLE     Optimized primer library for gene sequencing and method of using
          same
JOURNAL   Patent: US 6083695-A 516 04-JUL-2000;
          Location/Qualifiers
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              /organism="unknown"
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Best Local Similarity 77.8%; Score 7; DB 9; Length 8;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      2 ttctgaga 8
        ||||| |||
Db      1 TTCTGAGA 7

RESULT 12
LOCUS   A41392      10 bp      DNA      PAT      05-MAR-1997
DEFINITION Sequence 18 from Patent WO9426928.
ACCESSION A41392
VERSION   A41392.1 GI:2297111
KEYWORDS
SOURCE   synthetic construct.
          synthetic construct.
          artificial sequence.
ORGANISM
REFERENCE 1 (bases 1 to 10)
AUTHORS   Strauss, M. and Bauer, D.
TITLE     COMPLEX DIAGNOSTIC AGENT OF GENETIC EXPRESSION AND MEDICAL
          DIAGNOSIS AND GENE ISOLATION PROCESS USING SAID DIAGNOSTIC AGENT
          Patent: WO 9426928-A 18 24-NOV-1994;
          MAX PLANCK GESELLSCHAFT (DE)
          Other publication DE 4317414 940421.
          Location/Qualifiers
            1..10
              /organism="synthetic construct"
              /db_xref="taxon:32630"
            source
BASE COUNT      3 a      3 c      2 g      2 t
ORIGIN
Query Match
Best Local Similarity 77.8%; Score 7; DB 9; Length 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      2 tctgaga 8
        |||
        9 TCTGAGA 3

RESULT  13
A24764/c  A24764      11 bp      DNA      PAT      24-FEB-1995
LOCUS     oligonucleotide PS39.
DEFINITION
ACCESSION A24764
VERSION   A24764.1 GI:833668
KEYWORDS
SOURCE    synthetic construct.
ORGANISM  synthetic construct
          artificial sequence.
REFERENCE 1 (bases 1 to 11)
AUTHORS
TITLE     MODIFIED GENES AND THEIR EXPRESSION IN PLANT CELLS
JOURNAL   Patent: WO 9309218-A 4 13-MAY-1993;
FEATURES
          Location/Qualifiers
          source          1..11
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                        /db_xref="taxon:32630"
BASE COUNT      3 a      3 c      2 g      3 t
ORIGIN

Query Match      77.8%; Score 7; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.3e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 ctgagaa 9
        |||
        11 CTGAGAA 5

RESULT  14
AR074369/c  AR074369      11 bp      DNA      PAT      28-AUG-2000
LOCUS     Sequence 4 from patent US 5952547.
DEFINITION
ACCESSION AR074369
VERSION   AR074369.1 GI:10001124
KEYWORDS
SOURCE    Unknown.
ORGANISM  Unknown.
REFERENCE 1 (bases 1 to 11)
AUTHORS   Cornelissen,M., Soetaert,P., Stam,M., Dockx,J. and Van Aarsen,R.
TITLE     Modified Bacillus thuringiensis genes with improved expression in
          plant cells, methods of production on and use
JOURNAL   Patent: US 5952547-A 4 14-SEP-1999;
FEATURES
          Location/Qualifiers
          source          1..11
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BASE COUNT      3 a      3 c      2 g      3 t
ORIGIN

Query Match      77.8%; Score 7; DB 9; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.3e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 ctgagaa 9
        |||
        11 CTGAGAA 5

RESULT  15
A06058      A06058      12 bp      DNA      PAT      25-MAY-1993
LOCUS     Synthetic primer 476-487.
DEFINITION
ACCESSION A06058
VERSION   A06058.1 GI:411190

```

```

KEYWORDS
SOURCE    synthetic construct.
ORGANISM  synthetic construct
          artificial sequence.
REFERENCE 1 (bases 1 to 12)
AUTHORS   Hudson,P.J., Haley,J.D., Mall,H.D. and Shine,J.
TITLE     Molecular cloning and characterization of the gene sequence coding
          for porcine relaxin
JOURNAL   Patent: EP 0086649-A 8 24-AUG-1983;
          HOWARD FLOREY INSTITUTE OF EXPERIMENTAL PHYSIOLOGY AND MEDICINE
FEATURES
          Location/Qualifiers
          source          1..12
                        /organism="synthetic construct"
                        /db_xref="taxon:32630"
BASE COUNT      2 a      2 c      5 g      3 t
ORIGIN

Query Match      77.8%; Score 7; DB 9; Length 12;
Best Local Similarity 100.0%; Pred. No. 2.3e+06;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 tctgaga 8
        |||
        3 TCTGAGA 9

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Search completed: April 21, 2001, 13:07:39
 Job time: 5081 sec

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GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 21, 2001, 11:14:44 ; Search time 1100.03 Seconds
(without alignments)
1.196 Million cell updates/sec

Title: SHORT
Perfect score: 9
Sequence: 1 ttctgagaa 9

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9623517 seqs, 73081774 residues

Total number of hits satisfying chosen parameters: 308

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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120: gb_est51:*
121: gb_est52:*
122: gb_est53:*
123: gb_est54:*
124: gb_est55:*
125: gb_est56:*
126: gb_est57:*
127: gb_est58:*
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137: gb_est68:*
138: gb_est69:*
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140: gb_est71:*
141: gb_est72:*
142: gb_est73:*
143: gb_est74:*
144: gb_est75:*
145: gb_est76:*
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160: gb_est91:*
161: gb_est92:*
162: gb_est93:*
163: gb_est94:*
164: gb_est95:*
165: gb_est96:*
166: gb_est97:*
167: gb_est98:*
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169: gb_est100:*
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183: gb_est114:*
184: gb_est115:*
185: gb_est116:*
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189: gb_est120:*

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190: em_gss_pln1:*
191: em_gss_pln2:*
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193: em_gss_rod1:*
194: em_gss_rod2:*
195: em_gss_rod3:*
196: em_gss_rod4:*
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220: gb_gss20:*
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223: gb_gss23:*
224: gb_gss24:*
225: gb_gss25:*
226: gb_gss26:*
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229: gb_gss29:*
230: gb_gss30:*
231: gb_gss31:*
232: gb_gss32:*
233: gb_gss33:*
234: gb_gss34:*

```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	5.4	60.0	12	113	AW250557	AW250557 2821633.5
2	4.8	53.3	11	60	HSM007328	A1042478 Homo sapi
3	4.8	53.3	11	60	HSM007344	A1042494 Homo sapi
4	4.8	53.3	11	60	HSM007376	A1042526 Homo sapi
5	4.4	48.9	11	60	HSM007328	A1042478 Homo sapi
6	4.4	48.9	11	60	HSM007344	A1042494 Homo sapi
7	4.4	48.9	11	60	HSM007376	A1042526 Homo sapi
8	4.4	48.9	11	113	AW250935	AW250935 2821359.3
9	4.4	48.9	12	60	HSM007404	A1042554 Homo sapi
10	4.4	48.9	12	60	HSM007404	A1042554 Homo sapi
11	4.4	48.9	5	213	AO909961	AO909961 GSSTC0795
12	4.4	48.9	5	213	AO909961	AO909961 GSSTC0795
13	4.4	48.9	9	60	HSM008038	A1043188 Homo sapi
14	4.4	48.9	11	112	AW247612	AW247612 2819980.5
15	4.4	48.9	11	113	AW250935	AW250935 2821359.3
16	4.4	48.9	12	105	AL047587	AL047587 DKFZP586G
17	4.4	48.9	12	105	AL047587	AL047587 DKFZP586G
18	3.8	42.2	11	206	AQ445580	AQ445580 GSSTC0040

```

C 19 3.8 42.2 12 113 AM250557 2821633.5
C 20 3.8 42.2 12 175 C51419 C51419 Yuj1
C 21 3.4 37.8 7 60 HSM007412 A1042562 Homo sapi
C 22 3.4 37.8 10 60 HSM004456 A1039980 Homo sapi
C 23 3.4 37.8 10 60 HSM007587 A1042737 Homo sapi
C 24 3.4 37.8 10 112 AM248243 A1042843 2819618.5
C 25 3.4 37.8 11 60 HSM008167 A1043317 Homo sapi
C 26 3.4 37.8 11 112 AM245969 A1043317 Homo sapi
C 27 3.4 37.8 11 112 AM247933 282056.3
C 28 3.4 37.8 11 112 AM247933 282056.3
C 29 3.4 37.8 11 112 AM249647 2819740.3
C 30 3.4 37.8 11 112 AM249797 2819795.3
C 31 3.4 37.8 11 113 AM250442 AM250442 2822410.3
C 32 3.4 37.8 12 60 HSM007351 A1042501 Homo sapi
C 33 3.4 37.8 12 60 HSM007351 A1042501 Homo sapi
C 34 3.4 37.8 12 60 HSM007936 A1043086 Homo sapi
C 35 3.4 37.8 12 60 HSM008119 A1043269 Homo sapi
C 36 3.4 37.8 12 106 A0061224 A0061224
C 37 3.4 37.8 12 112 AM249871 A0061224 A0061224
C 38 3.4 37.8 12 113 AM250760 AM250760 2822521.3
C 39 3.4 37.8 12 113 AM250791 AM250791 2822383.3
C 40 3.4 37.8 12 201 A0050979 A0050979 nbdx0004d
C 41 3.4 37.8 3 118 AM672605 AM672605 2XA Expla
C 42 3.3 33.3 4 60 HSM010467 A1045617 Homo sapi
C 43 3.3 33.3 4 118 AM672622 AM672622 73C Expla
C 44 3.3 33.3 5 60 HSM007310 A1042460 Homo sapi
C 45 3.3 33.3 5 60 HSM007310 A1042460 Homo sapi

```

ALIGNMENTS

```

RESULT 1
LOCUS AM250557 12 bp mRNA EST 07-JAN-2000
DEFINITION 2821633.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2821633 5',
ACCESSION AM250557
VERSION AM250557
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 12)
NIH-MGC http://mgc.nci.nih.gov/.
Unpublished (1999)
Other ESTs: 2821633.3prime
Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1550
Email: Robert.Strausberg@nih.gov
Tissue Procurement: DCTD/DPD cDNA Library Preparation: Ling
Horn/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E.
Consortium (LNLN) DNA Sequencing by: Berkeley MGC sequencing
Project Clone distribution: MGC clone distribution information can
be found through the I.M.A.G.E. Consortium/LNLN at:
www.bio.lnl.gov/dbdp/image/image.html Base Calling / Quality
Scores: PHRED from University of Washington Genome Center. Vector
Trimming: cross_match from University of Washington Genome Center
PHRAP suite. Poly-T identification: patmatch.pl from Berkeley
Drosophila Genome Project. University of Washington Genome Center:
http://www.genome.washington.edu Low Quality Sequence: 0 contiguous
PHRED high quality bases following vector sequence. Very Low
Quality Sequence: trace file contained 12 contiguous distinct peaks
following vector sequence.
Plate: L1CM7 row: F column: 2.

```

FEATURES

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source
1..12
Location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2821633"
/clone_11b="NIH_MGC_7"

```

```

/tissue_type="small cell carcinoma"
/cell_line="MGC3"
/lab_host="DH10B (phage-resistant)"
/notes="Organ: lung; Vector: pOTB; Site_1: XhoI; Site_2:
EcoRI; CDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adapter: GCCACGAG(C). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."
```

BASE COUNT

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2 a 1 c 4 g 5 t
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Query Match 60.0%; Score 5.4; DB 113; Length 12;
Best Local Similarity 85.7%; Pred. No. 1.6e+07;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1 ttctgag 7
Db 5 ttttgag 11

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RESULT 2

```

HSM007328/C
ID HSM007328 standard; RNA; EST; 11 BP.

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AC AL042478;
XX AL042478.1

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```

DT 12-MAR-1999 (Rel. 59, Created)
DT 12-MAR-1999 (Rel. 59, Last updated, Version 1)
XX Homo sapiens mRNA; EST DKFZp434F1721_r1 (from clone DKFZp434F1721)
DE EST, expressed sequence tag.
XX

```

```

OS Homo sapiens (human)
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
OC Eutheria; Primates; Catarrhini; Homiidae; Homo.
XX

```

```

RN [1]
RP 1-11
RA Blum H., Bauersachs S., Mewes W., Gassenhuber J., Wiemann S.;
RT Submitted (12-MAR-1999) to the EMBL/GenBank/DBJ databases.
RL MIPS, Am Klopferspitz 18a D-82152 Martinsried, GERMANY
XX

```

```

CC Clone from S. Wiemann, sequenced by LMU within the cDNA
CC sequencing consortium of the German Genome Project
CC No sl sequence available
CC This clone is available at the RZPD in Berlin
CC Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
CC Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de
XX

```

Key

```

FH Location/Qualifiers
FH 1..11
FT source
FT /db_xref="taxon:9606"
FT /organism="Homo sapiens"
FT /clone="DKFZp434F1721"
FT /clone_11b="434 (synonym: hhes3). Vector pSport1; host
FT DH10B; sites NotI + SalI"
FT /dev_stage="adult"
FT /tissue_type="testis"
XX

```

```

SQ Sequence 11 BP; 2 A; 1 C; 3 G; 5 T; 0 other;
XX

```

```

Query Match 53.3%; Score 4.8; DB 60; Length 11;
Best Local Similarity 75.0%; Pred. No. 4.2e+07;

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```

Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 ttctgaga 8
   ||| |||
   Db 9 TTCCGAAA 2

RESULT 3
HSM007344/C
ID HSM007344 standard; RNA; EST; 11 BP.
XX AC AL042494;
XX SV AL042494.1
XX RT
XX DT 12-MAR-1999 (Rel. 59, Created)
XX DT 12-MAR-1999 (Rel. 59, Last updated, Version 1)
XX DE Homo sapiens mRNA; EST DKFZp434G1721_r1 (from clone DKFZp434G1721)
XX XX EST; expressed sequence tag.
XX KM
XX OS Homo sapiens (human)
XX OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
XX OC Eutheria; Primates; Catarrhini; Homiidae; Homo.
XX XX
XX FH
XX FH Location/Qualifiers
XX FT 1..11
XX FT /db_xref="taxon:9606"
XX FT /organism="Homo sapiens"
XX FT /clone="DKFZp434G1721"
XX FT /clone_1ib="434 (synonym: htes3). Vector pSport1; host
XX FT DH10B; sites NotI + SalI"
XX FT /dev_stage="adult"
XX FT /issue_type="testis"
XX XX
XX SO Sequence 11 BP; 2 A; 1 C; 3 G; 5 T; 0 other;

Query Match 53.3%; Score 4.8; DB 60; Length 11;
Best Local Similarity 75.0%; Pred. No. 4.2e+07;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 ttctgaga 8
   ||| |||
   Db 9 TTCCGAAA 2

RESULT 4
HSM007376/C
ID HSM007376 standard; RNA; EST; 11 BP.
XX AC AL042526;
XX SV AL042526.1
XX RT
XX DT 12-MAR-1999 (Rel. 59, Created)
XX DT 12-MAR-1999 (Rel. 59, Last updated, Version 1)

```

```

XX DE Homo sapiens mRNA; EST DKFZp434H0321_r1 (from clone DKFZp434H0321)
XX XX EST; expressed sequence tag.
XX KM
XX OS Homo sapiens (human)
XX OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
XX OC Eutheria; Primates; Catarrhini; Homiidae; Homo.
XX XX
XX FH
XX FH Location/Qualifiers
XX FT 1..11
XX FT /db_xref="taxon:9606"
XX FT /organism="Homo sapiens"
XX FT /clone="DKFZp434H0321"
XX FT /clone_1ib="434 (synonym: htes3). Vector pSport1; host
XX FT DH10B; sites NotI + SalI"
XX FT /dev_stage="adult"
XX FT /issue_type="testis"
XX XX
XX SO Sequence 11 BP; 2 A; 1 C; 3 G; 5 T; 0 other;

Query Match 53.3%; Score 4.8; DB 60; Length 11;
Best Local Similarity 75.0%; Pred. No. 4.2e+07;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 ttctgaga 8
   ||| |||
   Db 9 TTCCGAAA 2

RESULT 5
HSM007328
ID HSM007328 standard; RNA; EST; 11 BP.
XX AC AL042478;
XX SV AL042478.1
XX RT
XX DT 12-MAR-1999 (Rel. 59, Created)
XX DT 12-MAR-1999 (Rel. 59, Last updated, Version 1)
XX DE Homo sapiens mRNA; EST DKFZp434F1721_r1 (from clone DKFZp434F1721)
XX XX EST; expressed sequence tag.
XX KM
XX OS Homo sapiens (human)
XX OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
XX OC Eutheria; Primates; Catarrhini; Homiidae; Homo.
XX XX
XX FH
XX FH Location/Qualifiers
XX FT 1..11
XX FT /db_xref="taxon:9606"
XX FT /organism="Homo sapiens"
XX FT /clone="DKFZp434H0321"
XX FT /clone_1ib="434 (synonym: htes3). Vector pSport1; host
XX FT DH10B; sites NotI + SalI"
XX FT /dev_stage="adult"
XX FT /issue_type="testis"
XX XX
XX SO Sequence 11 BP; 2 A; 1 C; 3 G; 5 T; 0 other;

Query Match 53.3%; Score 4.8; DB 60; Length 11;
Best Local Similarity 75.0%; Pred. No. 4.2e+07;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 ttctgaga 8
   ||| |||
   Db 9 TTCCGAAA 2

RESULT 6
HSM007328
ID HSM007328 standard; RNA; EST; 11 BP.
XX AC AL042478;
XX SV AL042478.1
XX RT
XX DT 12-MAR-1999 (Rel. 59, Created)
XX DT 12-MAR-1999 (Rel. 59, Last updated, Version 1)
XX DE Homo sapiens mRNA; EST DKFZp434F1721_r1 (from clone DKFZp434F1721)
XX XX EST; expressed sequence tag.
XX KM
XX OS Homo sapiens (human)
XX OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
XX OC Eutheria; Primates; Catarrhini; Homiidae; Homo.
XX XX
XX FH
XX FH Location/Qualifiers
XX FT 1..11
XX FT /db_xref="taxon:9606"
XX FT /organism="Homo sapiens"
XX FT /clone="DKFZp434H0321"
XX FT /clone_1ib="434 (synonym: htes3). Vector pSport1; host
XX FT DH10B; sites NotI + SalI"
XX FT /dev_stage="adult"
XX FT /issue_type="testis"
XX XX
XX SO Clone from S. Wiemann, sequenced by LMU within the CDNA

```

```

CC sequencing consortium of the German Genome Project
CC No s1 sequence available
CC This clone is available at the RZPD in Berlin
CC Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
CC Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de
XX
FH Key Location/Qualifiers
FH
FT source 1. 11
FT /db_xref="taxon:9606"
FT /organism="Homo sapiens"
FT /clone_1lb="434 (synonym: htes3). Vector pSport1; host
FT DH10B; sites NotI + SalI"
FT /dev_stage="adult"
FT /tissue_type="testis"
FT
SQ Sequence 11 BP; 2 A; 1 C; 3 G; 5 T; 0 other;
SO
Query Match 48.9%; Score 4.4; DB 60; Length 11;
Best Local Similarity 83.3%; Pred. No. 8e+07;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 1 tttctga 6
    ||| ||
DB 3 TTCGGA 8
RESULT 6
ID HSM007344 standard; RNA; EST; 11 BP.
AC AL042494;
XX AL042494.1
XX
SV 12-MAR-1999 (Rel. 59, Created)
DT 12-MAR-1999 (Rel. 59, Last updated, Version 1)
XX
DE Homo sapiens mRNA; EST DKFZp434G1721_r1 (from clone DKFZp434G1721)
XX
KM EST; expressed sequence tag.
XX
OS Homo sapiens (human)
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia;
OC Eutheria; Primates; Catarrhini; Homnidae; Homo.
XX
XX [1]
RN Blum H., Bauersachs S., Mewes W., Gassenhuber J., Wiemann S.;
RP 1-11
Submitted (12-MAR-1999) to the EMBL/GenBank/DBJ databases.
RL MIPS, Am Klopferspitz 18a D-82152 Martinsried, GERMANY
XX
CC Clone from S. Wiemann, sequenced by LMU within the CDNA
CC sequencing consortium of the German Genome Project
CC No s1 sequence available
CC This clone is available at the RZPD in Berlin
CC Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
CC Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de
XX
XX Key Location/Qualifiers
XX
FH source 1. 11
FH /db_xref="taxon:9606"
FH /organism="Homo sapiens"
FH /clone_1lb="434 (synonym: htes3). Vector pSport1; host
FH DH10B; sites NotI + SalI"
FH /dev_stage="adult"
FH /tissue_type="testis"
FH
SQ Sequence 11 BP; 2 A; 1 C; 3 G; 5 T; 0 other;
SO
Query Match 48.9%; Score 4.4; DB 60; Length 11;
Best Local Similarity 83.3%; Pred. No. 8e+07;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 1 tttctga 6
    ||| ||
DB 3 TTCGGA 8
RESULT 8
ID AM250935 11 bp mRNA
AC AM250935 EST
XX DEFINITION 2821359.3prime NIH_MGC_7 Homo sapiens CDNA clone IMAGE:2821359 3',
    mRNA sequence.

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SQ Sequence 11 BP; 2 A; 1 C; 3 G; 5 T; 0 other;
SO
Query Match 48.9%; Score 4.4; DB 60; Length 11;
Best Local Similarity 83.3%; Pred. No. 8e+07;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 1 tttctga 6
    ||| ||
DB 3 TTCGGA 8
RESULT 7
ID HSM007376 standard; RNA; EST; 11 BP.
AC AL042526;
XX AL042526.1
XX
SV 12-MAR-1999 (Rel. 59, Created)
DT 12-MAR-1999 (Rel. 59, Last updated, Version 1)
XX
DE Homo sapiens mRNA; EST DKFZp434H0321_r1 (from clone DKFZp434H0321)
XX
KM EST; expressed sequence tag.
XX
OS Homo sapiens (human)
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia;
OC Eutheria; Primates; Catarrhini; Homnidae; Homo.
XX
XX [1]
RN Blum H., Bauersachs S., Mewes W., Gassenhuber J., Wiemann S.;
RP 1-11
Submitted (12-MAR-1999) to the EMBL/GenBank/DBJ databases.
RL MIPS, Am Klopferspitz 18a D-82152 Martinsried, GERMANY
XX
CC Clone from S. Wiemann, sequenced by LMU within the CDNA
CC sequencing consortium of the German Genome Project
CC No s1 sequence available
CC This clone is available at the RZPD in Berlin
CC Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
CC Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de
XX
XX Key Location/Qualifiers
XX
FH source 1. 11
FH /db_xref="taxon:9606"
FH /organism="Homo sapiens"
FH /clone_1lb="434 (synonym: htes3). Vector pSport1; host
FH DH10B; sites NotI + SalI"
FH /dev_stage="adult"
FH /tissue_type="testis"
FH
SQ Sequence 11 BP; 2 A; 1 C; 3 G; 5 T; 0 other;
SO
Query Match 48.9%; Score 4.4; DB 60; Length 11;
Best Local Similarity 83.3%; Pred. No. 8e+07;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 1 tttctga 6
    ||| ||
DB 3 TTCGGA 8
RESULT 8
ID AM250935 11 bp mRNA
AC AM250935 EST
XX DEFINITION 2821359.3prime NIH_MGC_7 Homo sapiens CDNA clone IMAGE:2821359 3',
    mRNA sequence.

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ACCESSION   AM250935
VERSION     AM250935.1
KEYWORDS    GI:6593928
SOURCE      human.
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE   1 (bases 1 to 11)
AUTHORS     NIH-MGC http://mgc.ncl.nih.gov/.
TITLE       National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL     Unpublished (1999)
COMMENT     Other_Estns: 2821359.5prime
            Contact: Robert Strausberg, Ph.D.
            Tel: (301) 496-1550
            Email: Robert.Strausberg@nih.gov
            Tissue Procurement: DCTD/DPF cDNA Library Preparation: Ling
            Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E.
            Consortium (LNLN) DNA Sequencing by: Berkeley MGC sequencing
            project Clone distribution: MGC clone distribution information can
            be found through the I.M.A.G.E. Consortium/LNLN at:
            www.bio.lnl.gov/ldrp/image/image.html Base Calling / Quality
            Scores: PHRED from University of Washington Genome Center. Vector
            Trimming: cross-match from University of Washington Genome Center
            PHRAP suite. Poly-T identification: patmatch.pl from Berkeley
            Drosophila Genome Project. University of Washington Genome Center:
            http://www.genome.washington.edu Low Quality Sequence: 11
            contiguous PHRED high quality bases following vector sequence. Very
            low Quality Sequence: Trace file contained 11 contiguous distinct
            peaks following vector sequence.
            Plate: L1C66 row: J column: 16
            High quality sequence stop: 11.
            Location/Qualifiers
                1..11
                /organism="Homo sapiens"
                /db_xref="taxon:9606"
                /clone="IMAGE:2821359"
                /clone_1lb="NIH_MGC_7"
                /tissue_type="small cell carcinoma"
                /cell_line="MGC3"
                /lab_host="DH10B (phage-resistant)"
                /note="Organ: Lung; Vector: pOTB7; Site_1: XhoI; Site_2:
                EcoRI; cDNA made by oligo-dT priming. Directionally
                cloned into EcoRI/XhoI sites using the following 5'
                adaptor: GGCACGAG(G). Size-selected >500bp for average
                insert size 1.8kb. Library constructed by Ling Hong in
                the laboratory of Gerald M. Rubin (University of
                California, Berkeley) using ZAP-cDNA synthesis kit
                (Stratagene) and Superscript II RT (Life Technologies)."
```

```

BASE COUNT      5 a      1 c      4 g      1 t
ORIGIN
1 c
```

```

Query Match      48.9%; Score 4.4; DB 113; Length 11;
Best Local Similarity 83.3%; Pred. No. 8e+07;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```

OY      3 ctgaga 8
        1 ||||
        4 CAGAGA 9
DB
```

```

RESULT 9
HSM007404
ID      HSM007404 standard; RNA; EST; 12 BP.
XX
AC      AL042554;
XX
SV      AL042554.1
XX
DT      12-MAR-1999 (Rel. 59, Created)
DT      12-MAR-1999 (Rel. 59, Last updated, Version 1)
XX
DE      Homo sapiens mRNA; EST DKFZp434I0921_r1 (from clone DKFZp434I0921)
```

```

XX      EST; expressed sequence tag.
KM
XX      Homo sapiens (human)
XX      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
OC      Eutheria; Primates; Catarrhini; Homnidae; Homo.
XX
XX      [1]
RA      Blum H., Bauersachs S., Mewes W., Gassenhuber J., Wiemann S.;
RP      Submitted (12-MAR-1999) to the EMBL/GenBank/DBJ databases.
RT      MIPS, Am Klopferspitz 18a D-82152 Martinsried, GERMANY
RL
CC      Clone from S. Wiemann, sequenced by LMU within the cDNA
CC      sequencing consortium of the German Genome Project
CC      No s1 sequence available
CC      This clone is available at the RZPD in Berlin
CC      Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
CC      Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de
XX
XX      Key      Location/Qualifiers
FH
FT      source      1..12
FT                  /db_xref="taxon:9606"
FT                  /organism="Homo sapiens"
FT                  /clone="DKFZp434I0921"
FT                  /clone_1lb="434 (synonym: htes3). Vector pSport1; host
FT                  DH10B; sites NotI + SalI"
FT                  /dev_stage="adult"
FT                  /tissue_type="testis"
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```

SQ      Sequence 12 BP; 2 A; 3 C; 3 G; 4 T; 0 other;
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```

Query Match      48.9%; Score 4.4; DB 60; Length 12;
Best Local Similarity 83.3%; Pred. No. 8.1e+07;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```

OY      1 ttctga 6
        1 ||| |
        2 TTTCGA 7
DB
```

```

RESULT 10
HSM007404/c
ID      HSM007404 standard; RNA; EST; 12 BP.
XX
AC      AL042554;
XX
SV      AL042554.1
XX
DT      12-MAR-1999 (Rel. 59, Created)
DT      12-MAR-1999 (Rel. 59, Last updated, Version 1)
XX
DE      Homo sapiens mRNA; EST DKFZp434I0921_r1 (from clone DKFZp434I0921)
```

```

XX      EST; expressed sequence tag.
XX
XX      Homo sapiens (human)
XX      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
OC      Eutheria; Primates; Catarrhini; Homnidae; Homo.
XX
XX      [1]
RA      Blum H., Bauersachs S., Mewes W., Gassenhuber J., Wiemann S.;
RT      Submitted (12-MAR-1999) to the EMBL/GenBank/DBJ databases.
RL      MIPS, Am Klopferspitz 18a D-82152 Martinsried, GERMANY
XX
CC      Clone from S. Wiemann, sequenced by LMU within the cDNA
CC      sequencing consortium of the German Genome Project
CC      No s1 sequence available
```


XX

```

DT 12-MAR-1999 (Rel. 59, Last updated, Version 1)
XX Homo sapiens mRNA; EST DKFZp434G2223_r1 (from clone DKFZp434G2223)
DE
XX EST; expressed sequence tag.
XX
XX Homo sapiens (human)
OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
OC Eutheria; Primates; Catarrhini; Homnidae; Homo.
XX
RN [1]
RP 1-9
RA Blum H., Bauersachs S., Mewes W., Gassenhuber J., Wiemann S.;
RT Submitted (12-MAR-1999) to the EMBL/GenBank/DBJ databases.
RL MIPS, Am Klopferplatz 18a D-82152 Martinsried, GERMANY
XX
CC Clone from S. Wiemann, sequenced by LMU within the CDNA
CC sequencing consortium of the German Genome Project
CC No s1 sequence available
CC This clone is available at the RZPD in Berlin
CC Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
CC Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de
XX
FH Key Location/Qualifiers
FH 1. .9
FT source /db_xref="taxon:9606"
FT /organism="Homo sapiens"
FT /clone="DKFZp434G2223"
FT /clone_lib="434 (synonym: htes3). Vector pSport1; host
FT DH10B; sites NciI + Sali"
FT /dev_stage="adult"
FT /tissue_type="testis"
XX
SQ Sequence 9 BP; 1 A; 1 C; 2 G; 5 T; 0 other:

Query Match          44.4%; Score 4; DB 60; Length 9;
Best Local Similarity 100.0%; Pred. No. 9.7e+08;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 tctg 5
   |||
   Db 1 TCTG 4

RESULT 14
AM247612/c 11 bp mRNA EST 07-JAN-2000
LOCUS      2819980.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819980 5',
DEFINITION mRNA sequence.
ACCESSION  AM247612
VERSION     AM247612.1 GI:6590605
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
            1 (bases 1 to 11)
            NIH-MGC http://mgi.nci.nih.gov/.
            National Institutes of Health, Mammalian Gene Collection (MGC)
            Unpublished (1999)
            Other ESTs: 2819980.3prime
            Contact: Robert Strausberg, Ph.D.
            Tel: (301) 496-1550
            Email: Robert.Strausberg@nih.gov
            Tissue Procurement: DCTD/DRP cDNA Library Preparation: Ling
            Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E.
            Consortium (LNL) DNA Sequencing by: Berkeley MGC sequencing
            project clone distribution: MGC clone distribution information can
            be found through the I.M.A.G.E. Consortium/LNL at:
            www-bio.lnl.gov/dbdp/image/image.html Base Calling / Quality

```

```

Scores: PHRED from University of Washington Genome Center. Vector
Trimming: cross_match from University of Washington Genome Center
PHRAP suite. Poly-T identification: patmatch.pl from Berkeley
Drosophila Genome Project. University of Washington Genome Center:
http://www.genome.washington.edu Low Quality Sequence: 0 contiguous
PHRED high quality bases following vector sequence. Very Low
Quality Sequence: trace file contained 11 contiguous distinct peaks
following vector sequence.
Plate: LLCM3 row: A column: 5.

FEATURES
    source
        1. .11
        /organism="Homo sapiens"
        /db_xref="taxon:9606"
        /clone="IMAGE:2819980"
        /clone_lib="NIH_MGC 7"
        /tissue_type="small cell carcinoma"
        /cell_line="MGC3"
        /lab_host="DH10B (phage-resistant)"
        /note="Organ: lung; Vector: pOTB7; Site_1: XhoI; Site_2:
        EcoRI; cDNA made by oligo-dT priming. Directionally
        cloned into EcoRI/XhoI sites using the following 5'
        adaptor: GGCACGCG(C). Sites selected >500bp for average
        insert size 1.8kb. Library constructed by Ling Hong in
        the laboratory of Gerald M. Rubin (University of
        California, Berkeley) using ZAP-cDNA synthesis kit
        (Stratagene) and Superscript II RT (Life Technologies)."
```

```

BASE COUNT
ORIGIN      3 a      3 c      4 g      1 t

Query Match          44.4%; Score 4; DB 112; Length 11;
Best Local Similarity 100.0%; Pred. No. 1.5e+08;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 tctg 5
   |||
   Db 9 TCTG 6

RESULT 15
AM250935/c 11 bp mRNA EST 07-JAN-2000
LOCUS      2821359.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2821359 3',
DEFINITION mRNA sequence.
ACCESSION  AM250935
VERSION     AM250935.1 GI:6593928
KEYWORDS   EST.
SOURCE     human.
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
            1 (bases 1 to 11)
            NIH-MGC http://mgi.nci.nih.gov/.
            National Institutes of Health, Mammalian Gene Collection (MGC)
            Unpublished (1999)
            Other ESTs: 2821359.5prime
            Contact: Robert Strausberg, Ph.D.
            Tel: (301) 496-1550
            Email: Robert.Strausberg@nih.gov
            Tissue Procurement: DCTD/DRP cDNA Library Preparation: Ling
            Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E.
            Consortium (LNL) DNA Sequencing by: Berkeley MGC sequencing
            project clone distribution: MGC clone distribution information can
            be found through the I.M.A.G.E. Consortium/LNL at:
            www-bio.lnl.gov/dbdp/image/image.html Base Calling / Quality
            Scores: PHRED from University of Washington Genome Center. Vector
            Trimming: cross_match from University of Washington Genome Center
            PHRAP suite. Poly-T identification: patmatch.pl from Berkeley
            Drosophila Genome Project. University of Washington Genome Center:
            http://www.genome.washington.edu Low Quality Sequence: 11
            contiguous PHRED high quality bases following vector sequence. Very
            Low Quality Sequence: trace file contained 11 contiguous distinct
            peaks following vector sequence.

```

Plate: L1CM6 row: J column: 16
High quality sequence stop: 11.

FEATURES

source

Location/Qualifiers

```
1.11
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2821359"
/clone.lib="NIH_MGC_7"
/tissue_type="small cell carcinoma"
/cell_line="MGC3"
/lab_host="DH10B (phage-resistant)"
/note="Organ: lung; Vector: pORF7; Site_1: XhoI; Site_2:
EcoRI; CDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GCCACGAG(C). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."
```

BASE COUNT

5 a 1 c 4 g 1 t

ORIGIN

Query Match

44.4%; Score 4; DB 113; Length 11;

Best Local Similarity 100.0%; Pred. No. 1.5e+08;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 tctg 5

||||

Db 7 TCTG 4

Search completed: April 21, 2001, 12:34:38
Job time: 4794 sec

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